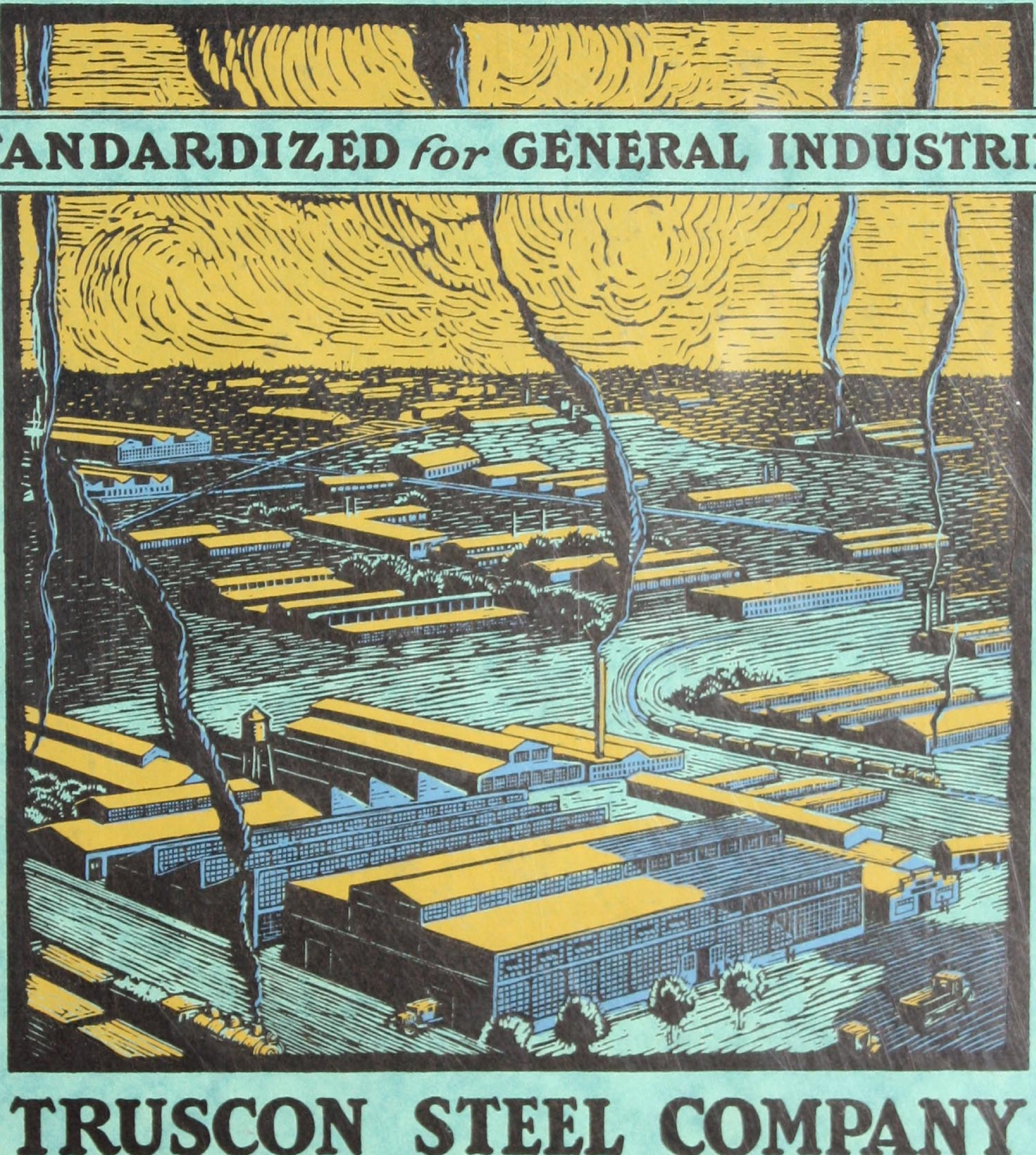
127-21.

TRUSCON PERMANENT BUILDINGS

TRUSCON STEEL CO.

STANDARDIZED for GENERAL INDUSTRIES



Fire proof Construction

TRUSCON STEEL COMPANY
YOUNGSTOWN, OHIO
WAREHOUSES AND OFFICES IN ALL PRINCIPAL CITIES

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TRUSCON PERMANENT BUILDINGS

STANDARDIZED FOR

GENERAL INDUSTRIES

RUST-RESISTING, NON-COMBUSTIBLE HOUSING FOR

- ASSEMBLY PLANTS
- BUNK HOUSES
- CARPENTER SHOPS
- CLAY PRODUCTS PLANTS
- CUT STONE PLANTS
- DIE HOUSES
- EXPOSITION BUILDINGS
- FACTORIES
- FORGE SHOPS
- FOUNDRIES
- FRUIT PACKING PLANTS
- GARAGES
- GAS PLANTS
- GLASS FACTORIES
- GYMNASIUMS
- HANGARS
- HEATING PLANTS
- INDUSTRIAL CLUB HOUSES
- INDUSTRIAL HOSPITALS
- LABORATORIES
- MACHINE SHOPS
- MANUAL TRAINING SCHOOLS
- POWER HOUSES
- PRINTING PLANTS
- PUMP HOUSES
- RUBBER WORKS
- SERVICE STATIONS
- SHOP OFFICES
- SPINNING MILLS
- WAREHOUSES
- WEAVE SHEDS
- YARD OFFICES

AND FOR ALL OTHER REQUIREMENTS

TRUSCON STEEL COMPANY
YOUNGSTOWN, OHIO
Warehouses and Offices in all Principal Cities

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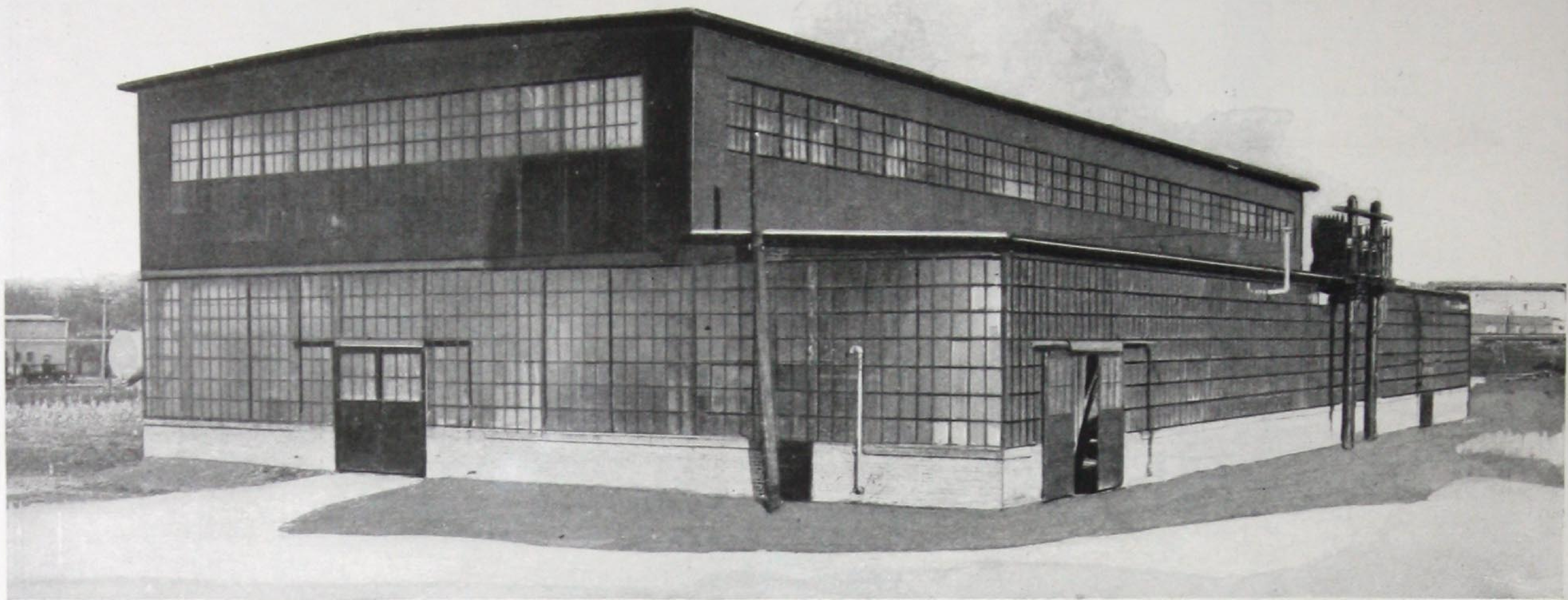


TRUSCON BUILDING WITH "STEELDECK" ROOF FOR A CUT STONE PLANT

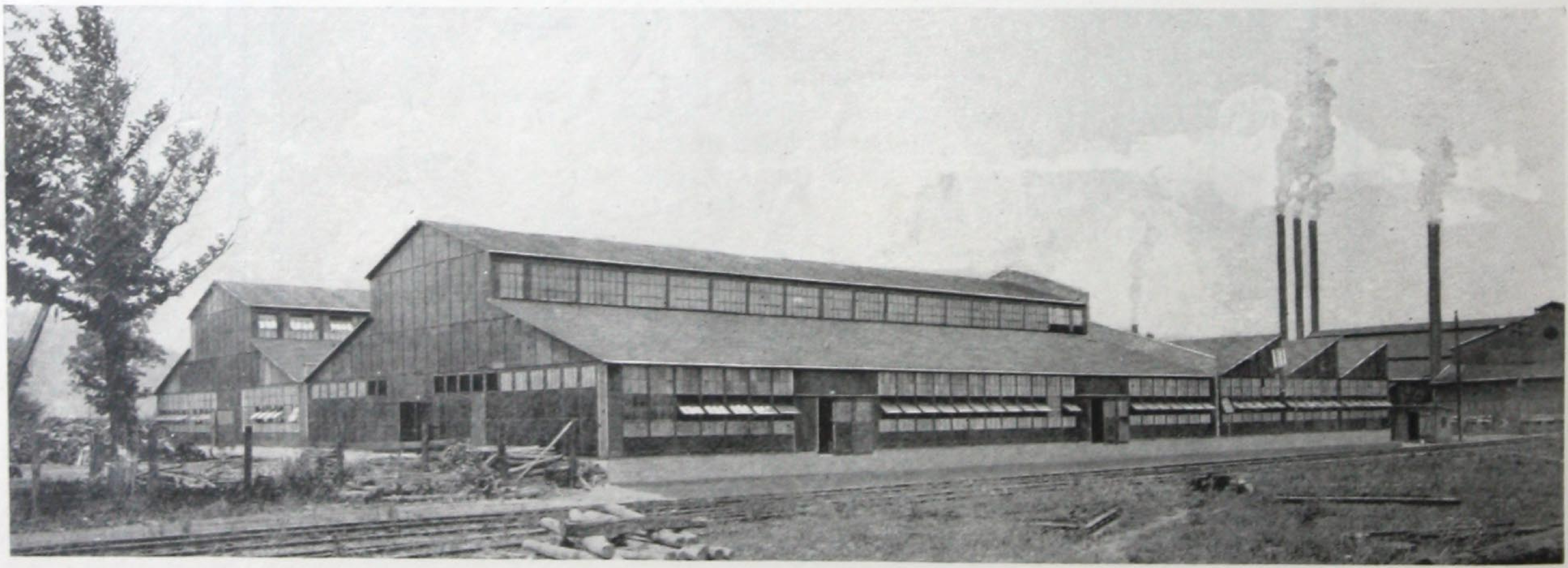
Truscon Buildings Are Known the World Over

TRUSCON BUILDINGS
FOR ALL
One and Two-Story
Requirements.

FIFTEEN years ago standardized steel buildings were unknown. Today they are universally employed the world over. Go where you will in any quarter of the globe—wherever there are factories, shops, warehouses, the hum of world industry—there you will find Truscon Standard Steel Buildings.

Earthquake and fire lay waste great cities in Japan. Cablegrams flash back and forth. Engineers figure. Wheels turn night and day and, shortly, shiploads of Truscon Steel Buildings move away from their piers, bound for the Orient.

A Michigan automobile manufacturer needs increased stock storage capacity. A corn belt builder of agricultural implements must increase his foundry space. An eastern traction company decides to supplement its service with a fleet of motor-driven busses. A Western garage owner, a Porto Rican sugar refiner, a North Carolina cotton mill owner, an Eastern merchant, all decide to expand their equipment.



A GROUP OF TRUSCON BUILDINGS, SHOPS AND WAREHOUSES FOR A STOVE FACTORY

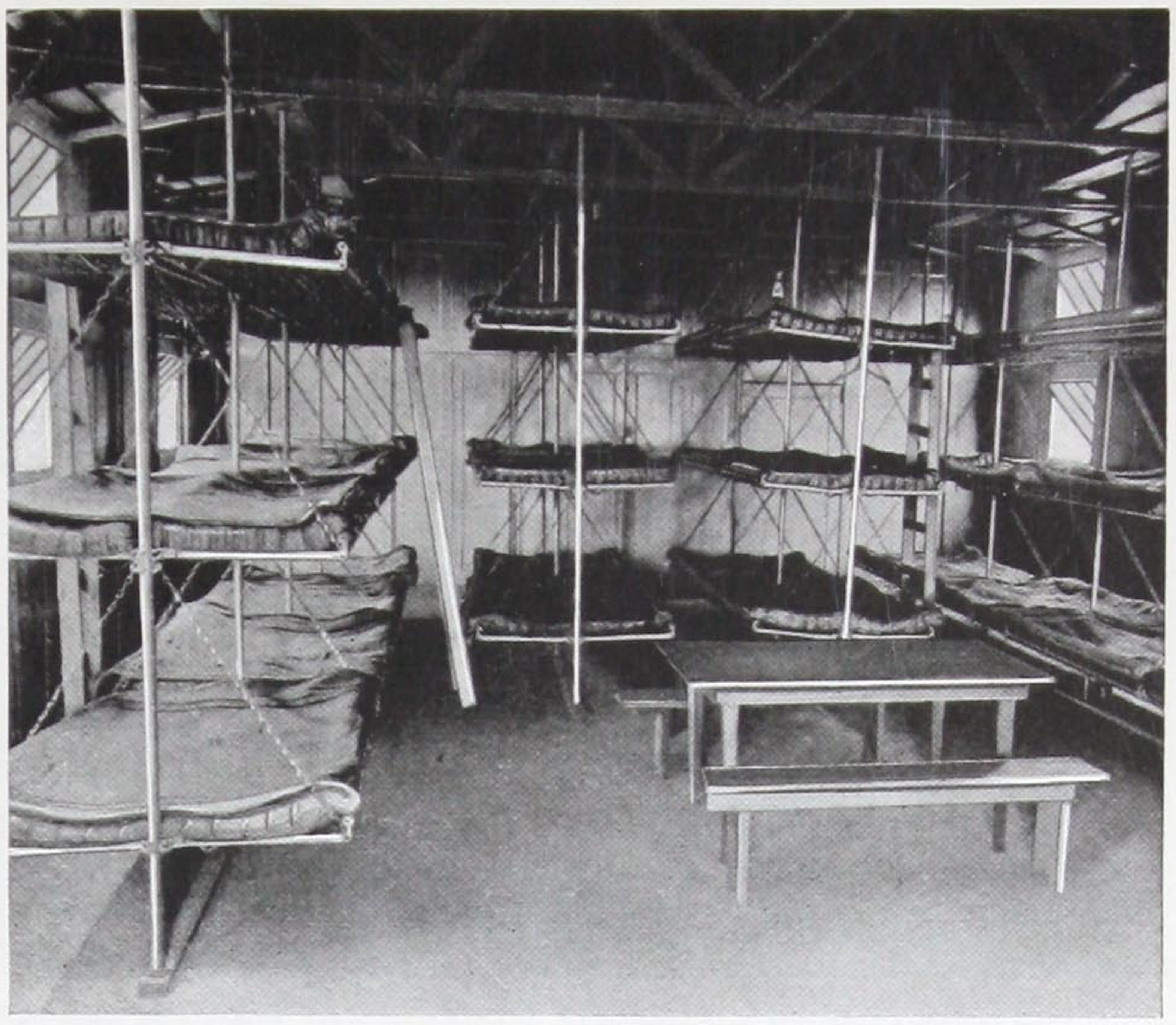
Truscon is consulted. Plans are prepared, shop orders issued and shipments made. As if by magic Truscon Steel Buildings rise under the direction of Truscon Erection Superintendents in these widely separated parts of the world and to meet these vastly different housing requirements.

Originated by Truscon—developed and adapted to every conceivable housing purpose by Truscon—these buildings have set a record for quick, world-wide acceptance.

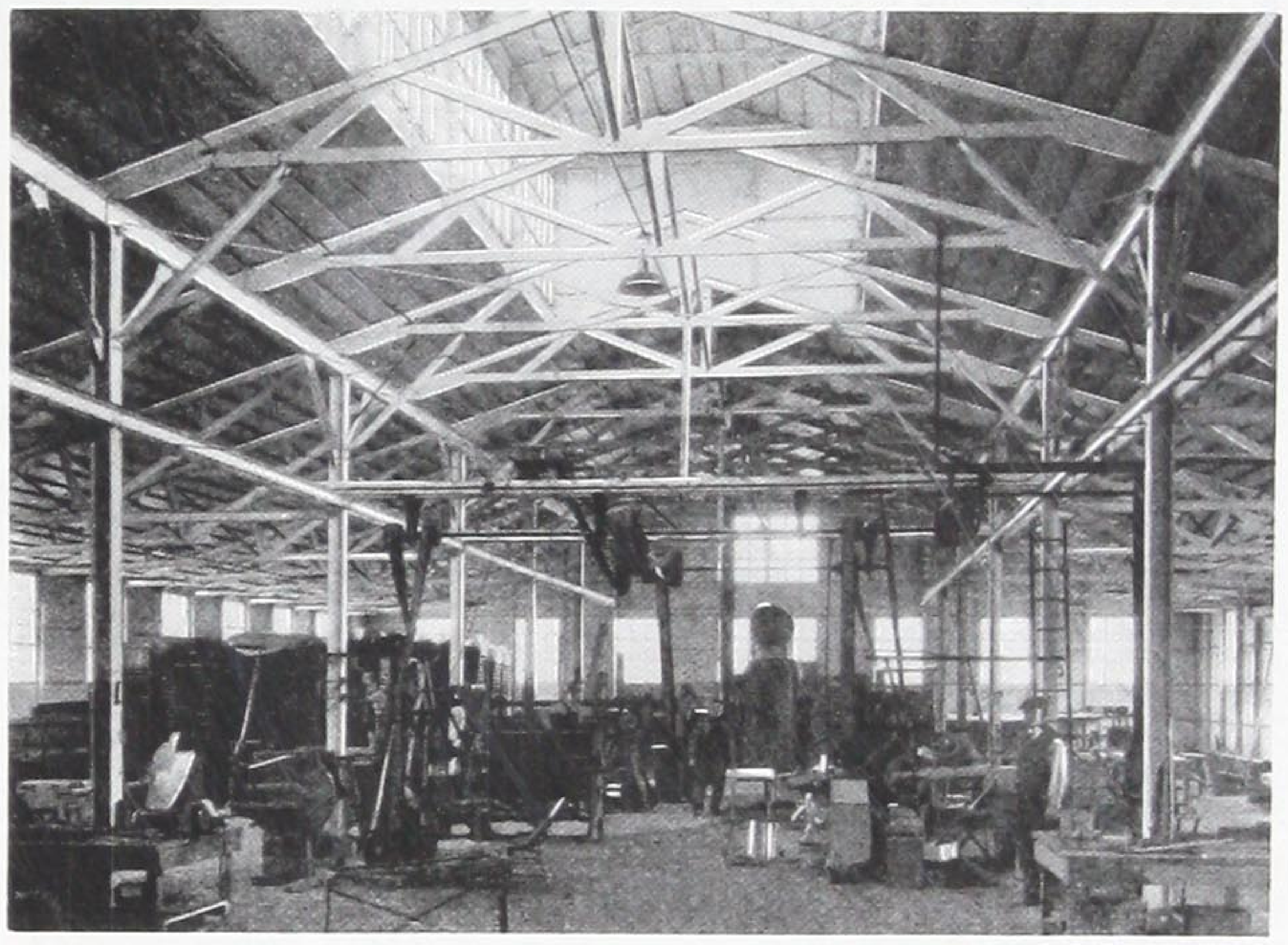
The success of Truscon Steel Buildings is primarily due to the universal needs they so amply satisfy. Need for one and two-story buildings that cut fire-risk to the minimum—need for buildings that are permanent—low in cost—easily erected—inexpensive to maintain—flexible, durable, attractive in appearance. In short, buildings which offer a steel advantage for every wood disadvantage—in every sense of the word, economical buildings.

With Truscon Buildings you avoid substitutions, omissions and costly mistakes. The quoted price and the final cost are the same. The building you want is the building you receive, at the price you have agreed to pay.

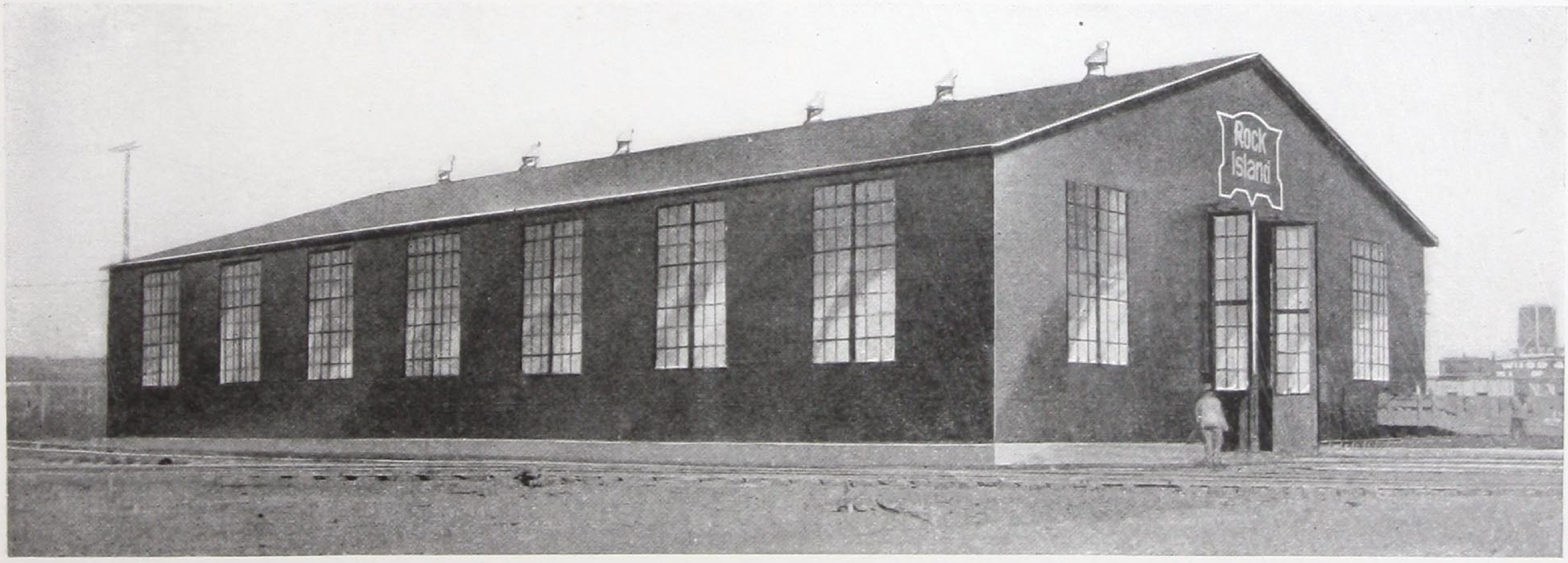
TRUSCON SERVICE involves all problems of Construction from preliminary studies, layouts, simplifying of ideas, refining of details and pre-determination of costs, to the complete erection of the structure.



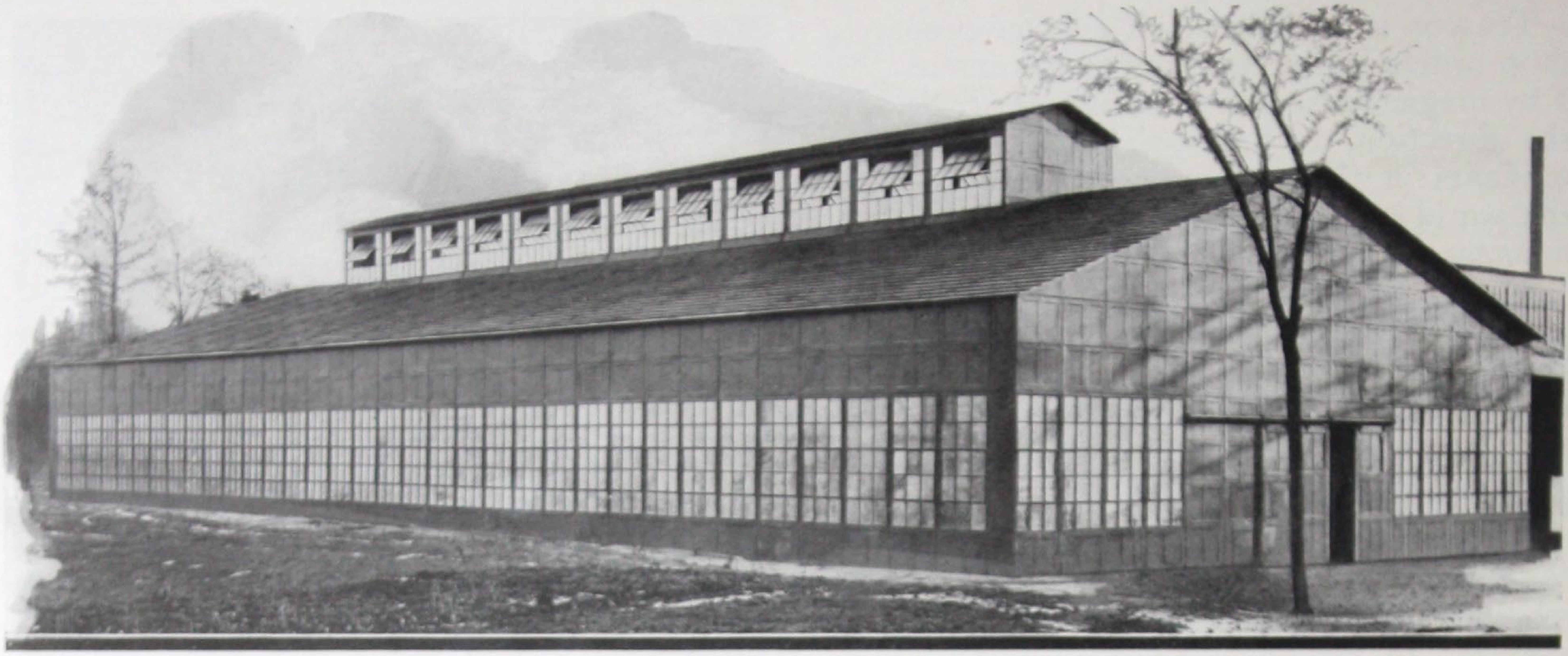
INTERIOR OF A BUNKHOUSE



INTERIOR OF A PRESSED STEEL SHOP



A WOODWORKING REPAIR SHOP HOUSED IN A TRUSCON BUILDING WITH "STEELDECK" ROOF



PROPERLY VENTILATED AND DAYLIGHTED ASSEMBLY PLANT IN THE STEEL INDUSTRY

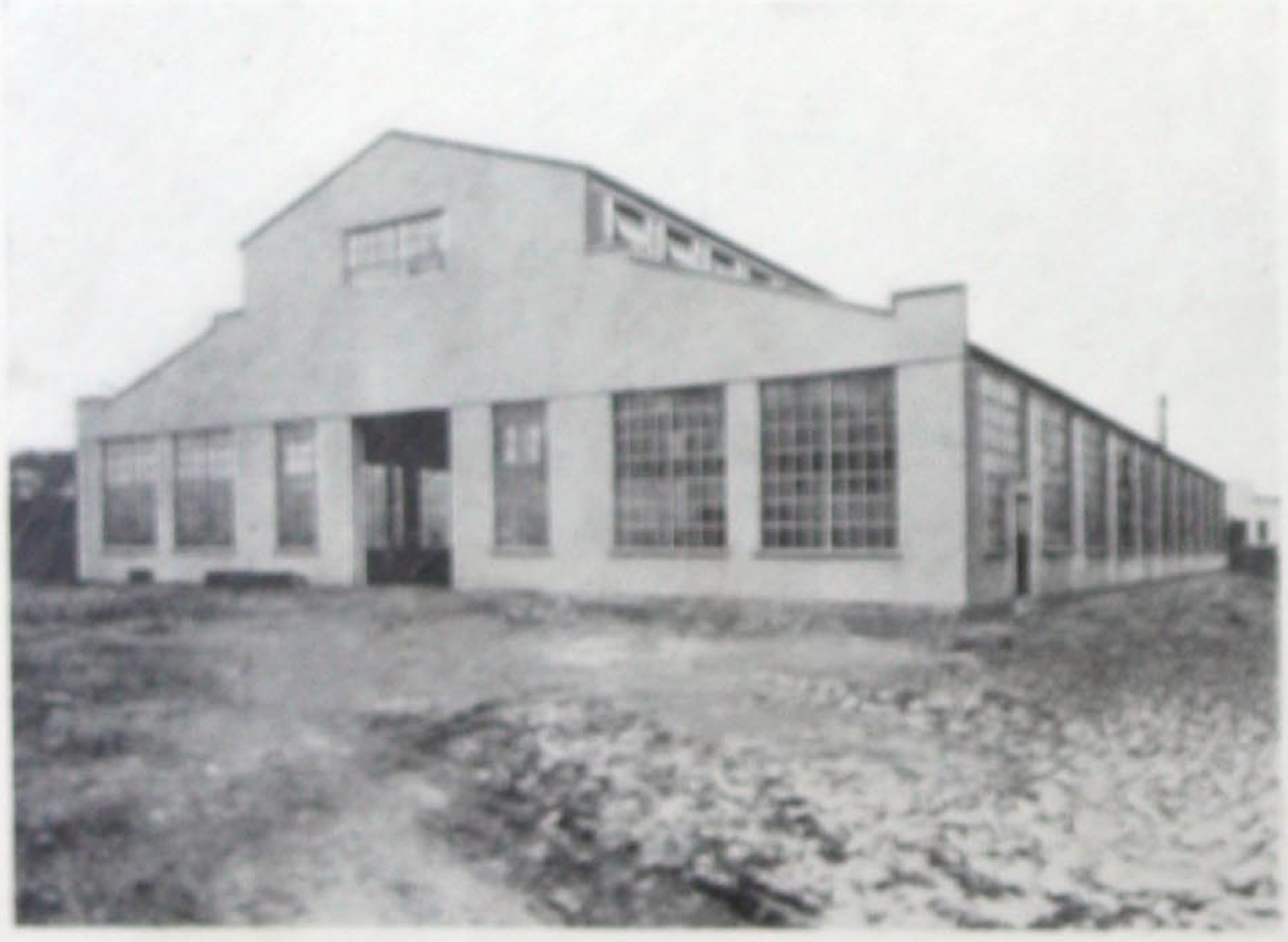
For Special Needs from Standardized Products

THE materials of which Truscon Steel Buildings are made are standardized. Each separate, complete building, however, is an individual product in itself designed for one special purpose.

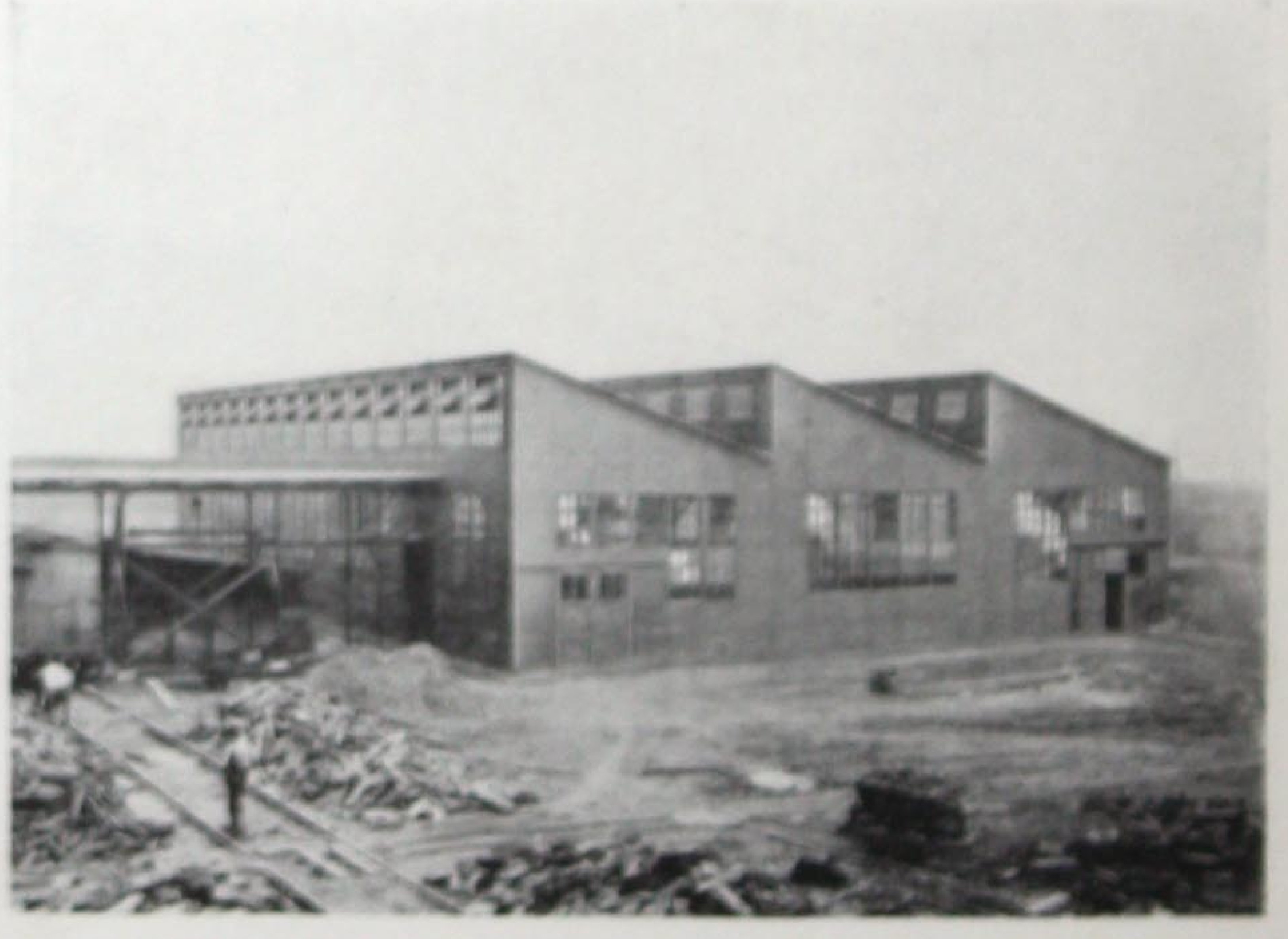
A Truscon Building designed to house the compressor pumps of an Oklahoma Oil project may have many features similar to those of the Truscon Building which an Ohio foundry uses for pattern storage. But they are fundamentally different structures, designed for different purposes. Each has standardized parts which are exactly the same. Each was produced by the same standardized methods of manufacture. Each is a Truscon Standard Steel Building.

You obtain exactly what you want in a building. The structure is precisely fitted to your special requirement—and the economies of standardization give you the utmost in permanence, fire-safety, flexibility and satisfaction for every dollar invested.

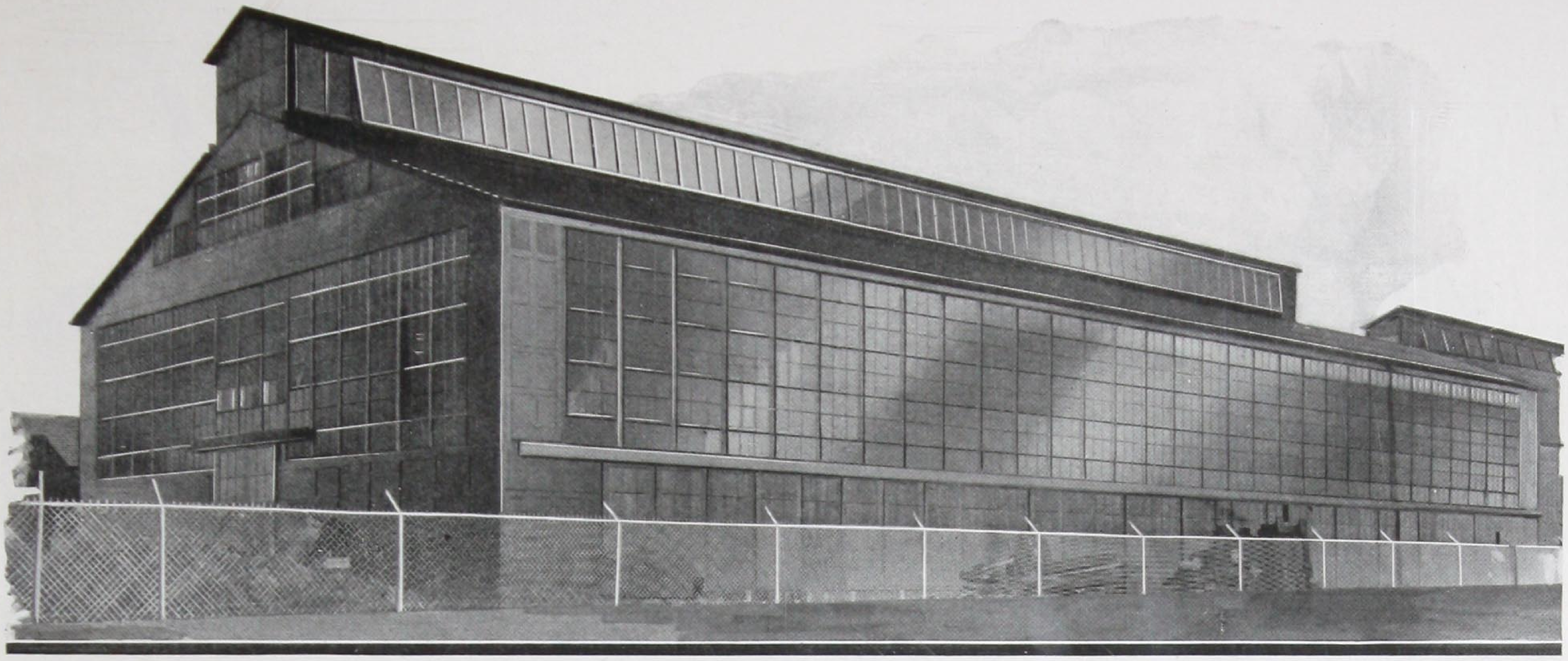
TRUSCON BUILDINGS
are distinctively original
only parts of buildings are
standardized.



A TRUSCON BUILDING IN THE TEXTILE INDUSTRY



SAWTOOTH BUILDING FOR MACHINE SHOP



A LARGE TRUSCON BUILDING USED AS FORGE SHOP IN THE MANUFACTURE OF METAL PARTS

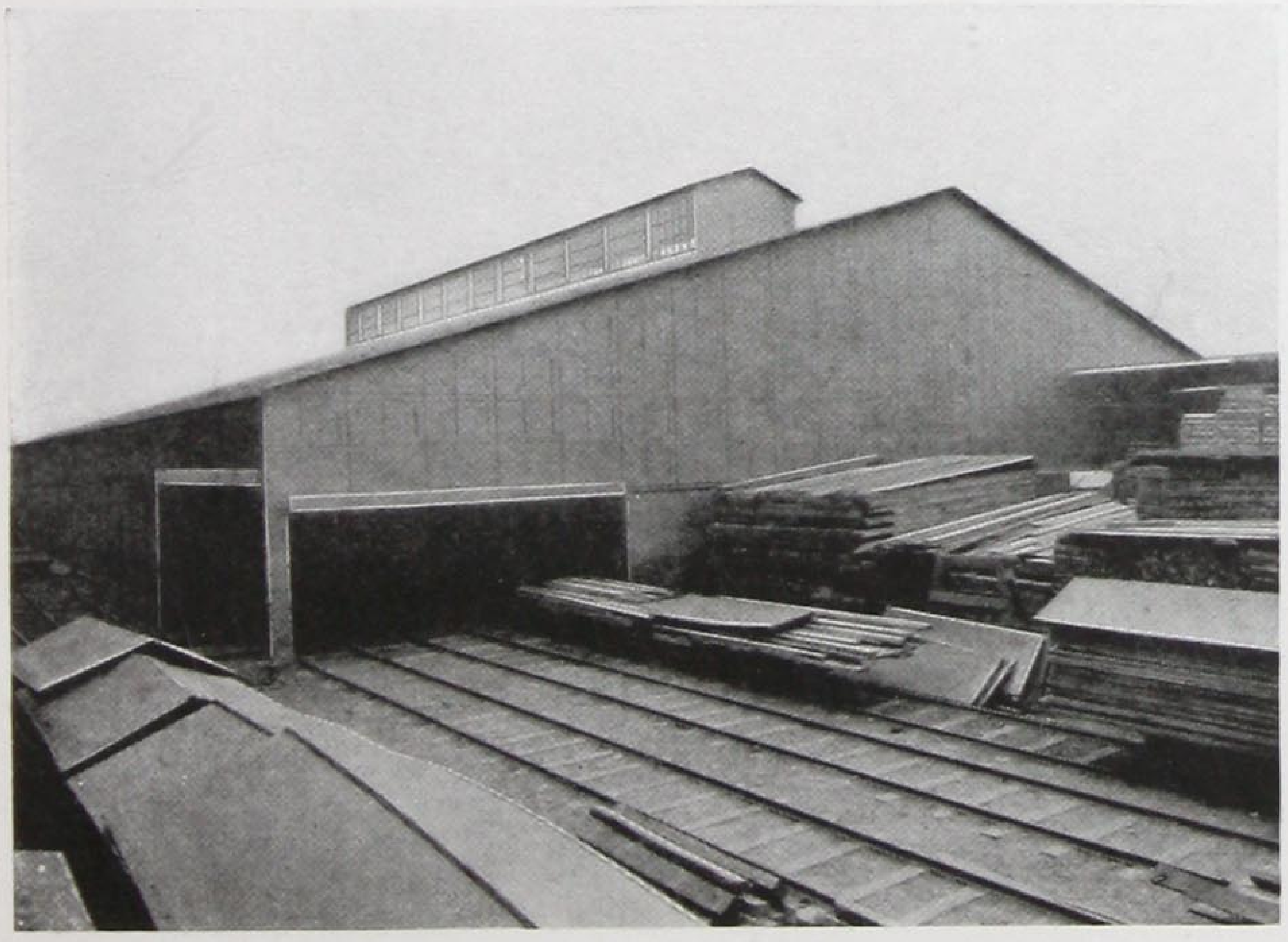
From Original Design to Completed Building

TRUSCON BUILDINGS
in Flat and Pitched Roofs, Monitors and Sawtooth Types.

ONCE you decide you want a Truscon Steel Building, responsibility for supplying that building is completely shouldered by the Truscon organization.

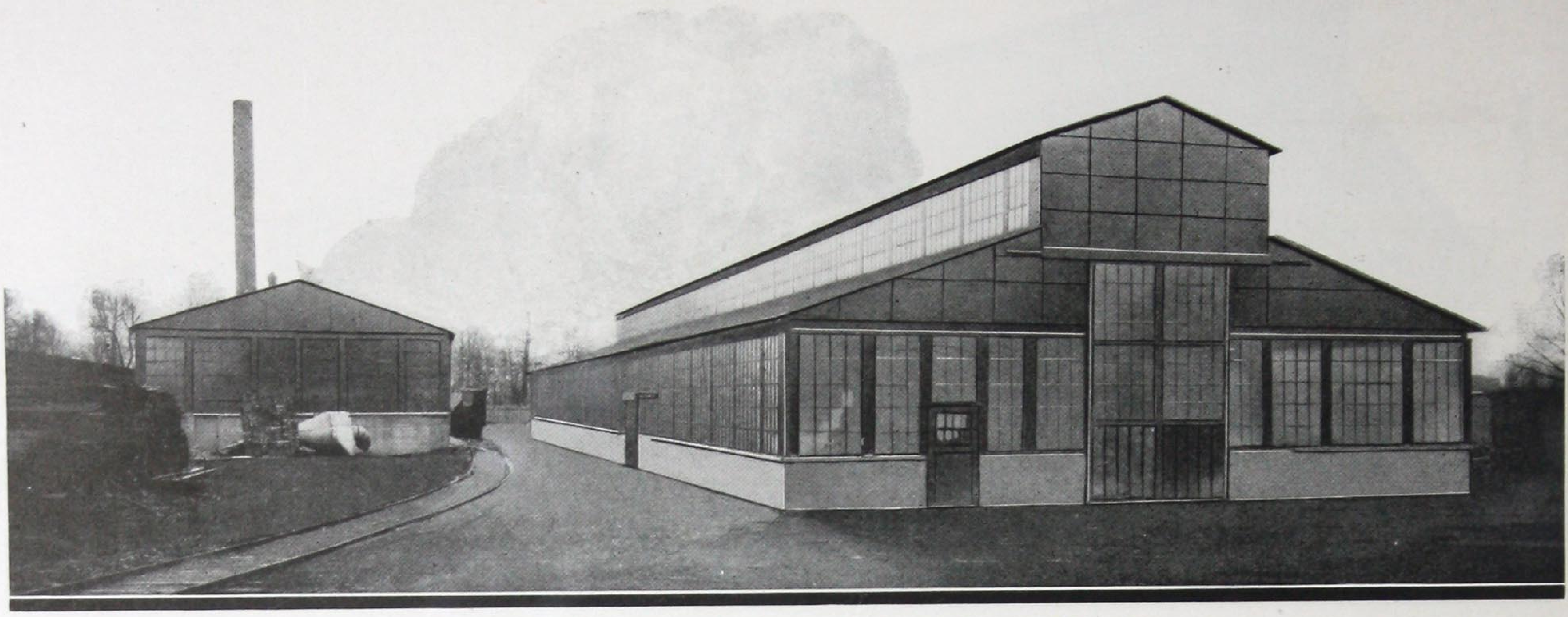
First comes the design. Many thousands of dollars could not buy the resources of skill and experience which Truscon uses in planning your building. Men of mature training and recognized ability, men who know costs, who are familiar with your housing problem, consult with you and create the design which best meets your needs. This may be the work of days or of minutes. You may need something entirely different from any Truscon Building ever constructed. Or one of the 12 types, shown on pages 14 and 15, may fit your requirements exactly.

Whatever it is, that building must be right. It must satisfy you in every way, in design, in cost and in the time necessary for its fabrication and erection. There is no guess-work. Every factor is definitely known.



TRUSCON BUILDING USED AS DRY KILN

TRUSCON BUILDING FOR FRUIT GROWERS



DELIVERED ON TIME, READY FOR OCCUPANCY

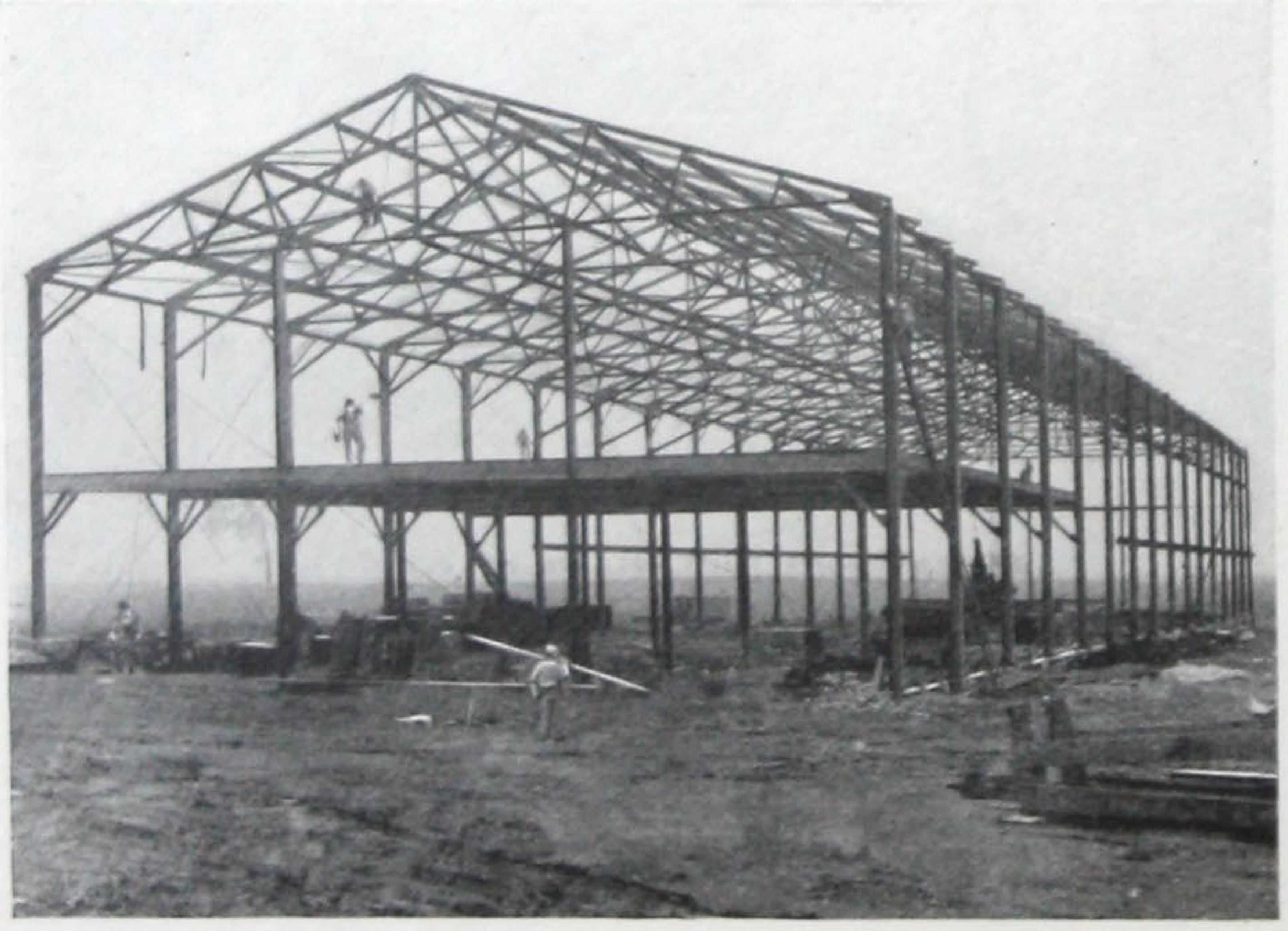
Erection under Truscon Expert Supervision

TRUSCON BUILDINGS
are erected with a minimum cost of field labor—you save it.

TRUSCON Buildings are shop fabricated. They reach the location complete, ready for erection. But Truscon's responsibility does not end with the delivery of materials.

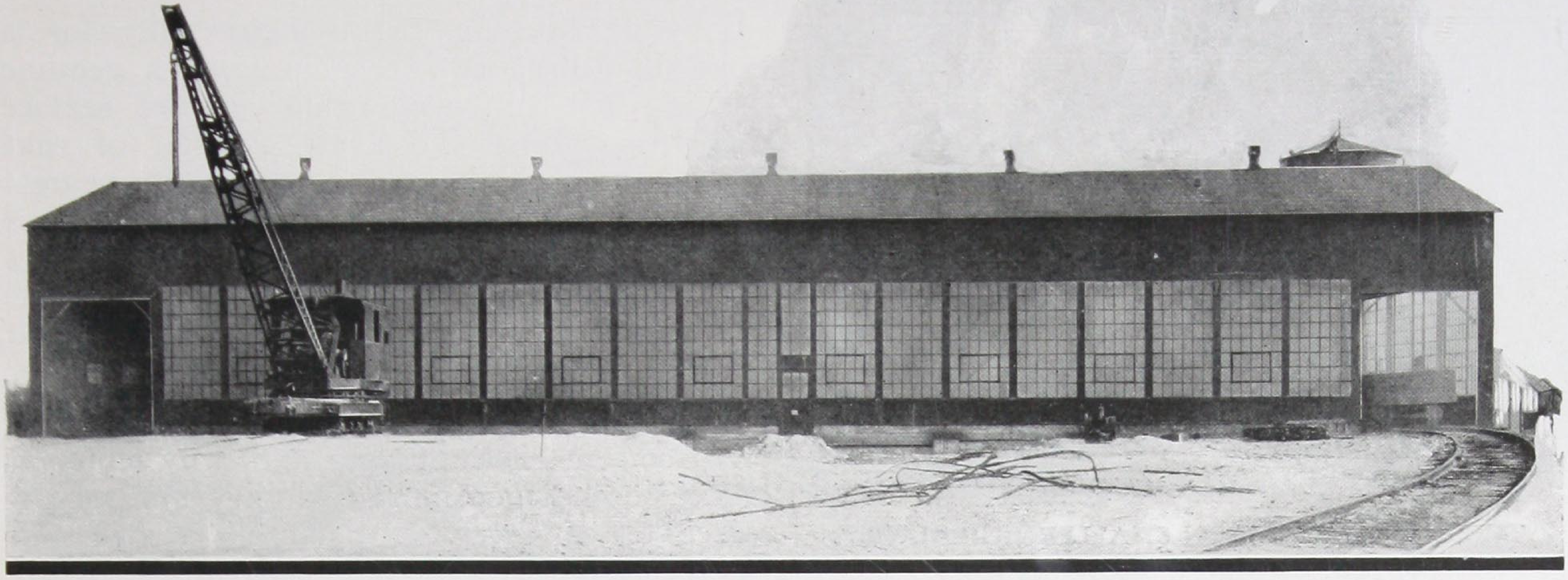
A Truscon Erection Superintendent, thoroughly familiar with every factor of building erection, supervises the entire job of putting up the structure. The men who compose Truscon's Erection Service are specialists in this work. With their co-operation you are assured that your building will be ready for use when you want it. There will be no unnecessary disturbance of your regular plant operations.

A manufacturer signed a contract for a Truscon Standard Building. Two weeks before the promised date of completion he examined the site. Nothing had been done. His surprise was complete when the Truscon representative called at his office on the final day and informed him that his building was ready. That is only one of the examples of Truscon dependability.



NO DELAY IN TRUSCON ERECTION

SPEED AND DEPENDABLE ATTENTION



BUILDINGS OF HUNDRED PER CENT SALVAGE VALUE ABOVE THE FOUNDATION

Built-in Permanence Cuts Maintenance Costs

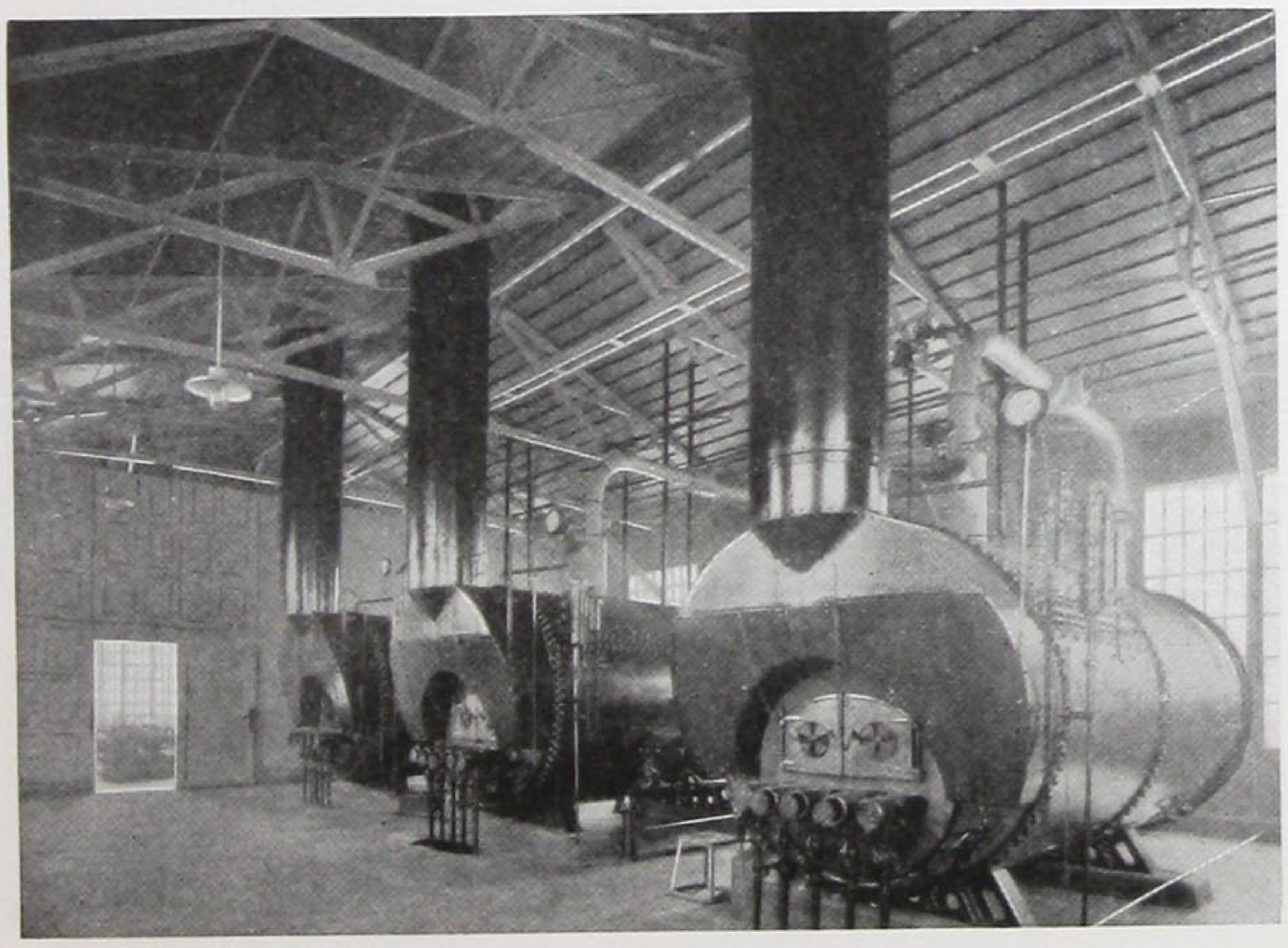
HAVE you ever seen a Truscon Steel Building? Did you ever strike its armor-plate side panels with your fist? There's nothing "tin-panny" about a Truscon Building. Its walls are built to last indefinitely.

And the copper-bearing steel used in roofs, sidewalls, windows and doors of Truscon Steel Buildings is another feature of permanence. Copper-bearing steel resists rust, corrosion and the attacks of destructive gases, long after ordinary steel has crumbled and failed.

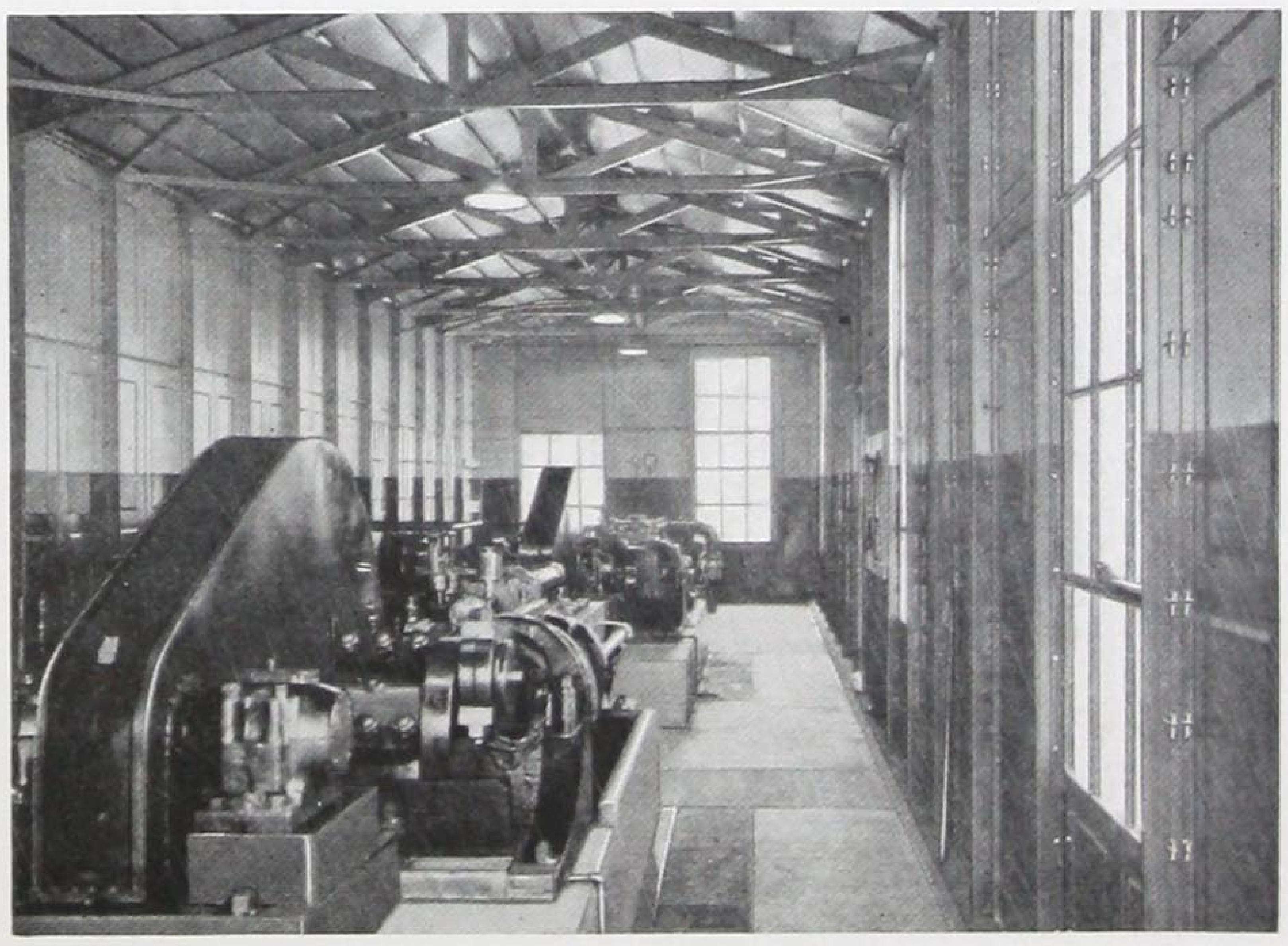
TRUSCON BUILDINGS
can be dismantled and re-erected with 100% salvage value.

Fire-safety is another factor in favor of Truscon Steel Buildings. Built of incombustible materials, fire-risk is cut to a minimum. The late Dr. Steinmetz stated that steel buildings are excellent conductors and lightning proof. When struck the lightning is carried to the ground and dissipated.

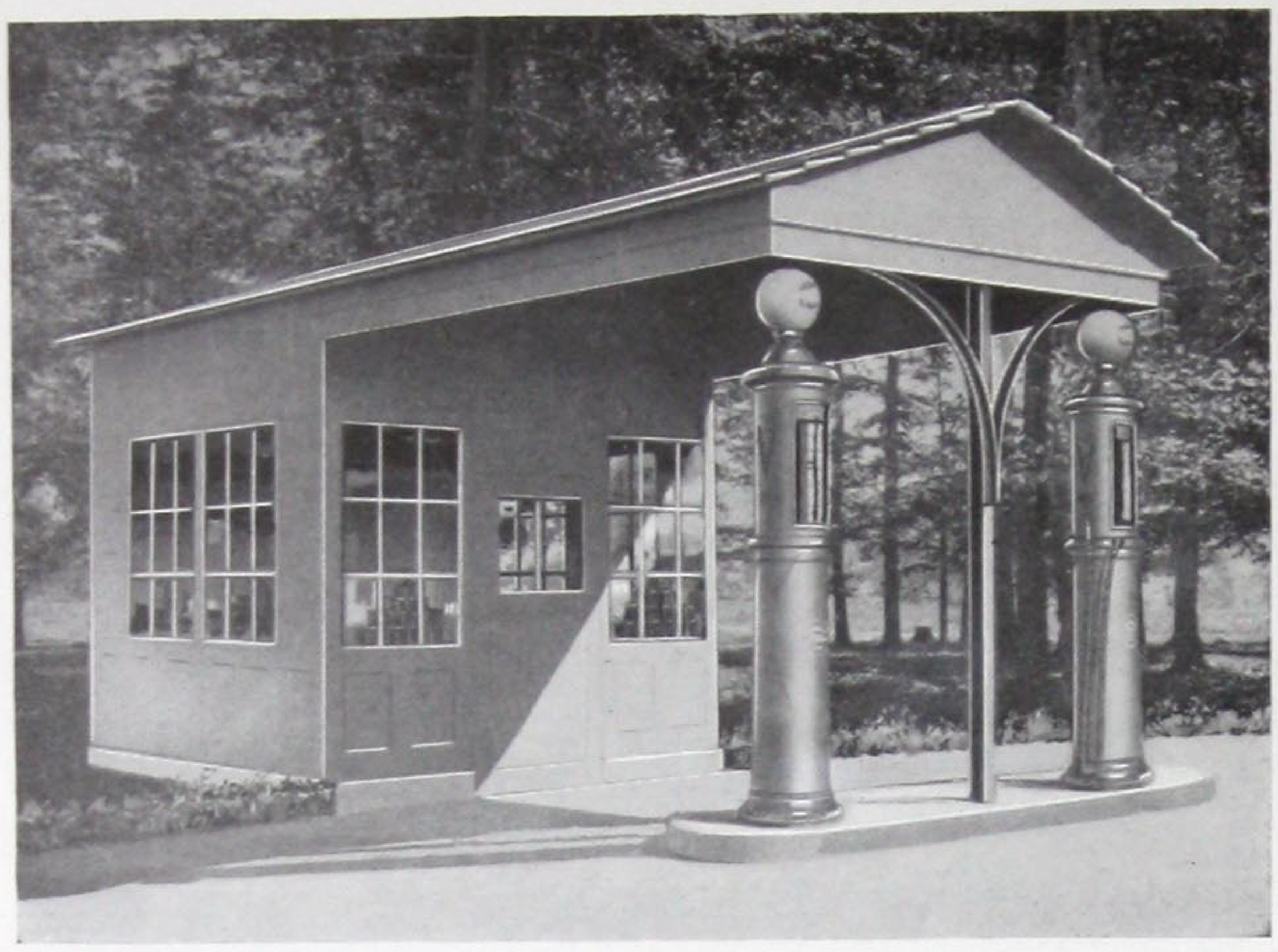
So you find Truscon Buildings throughout those industries which house highly inflammable products. Greater safety means lower maintenance cost and less depreciation.



INTERIOR OF A BOILERHOUSE



INTERIOR OF A PUMPHOUSE



THE SAME QUALITY IN SMALLER BUILDINGS

FILLING STATIONS IN FACTORIES FOR PLANT EFFICIENCY

Truscon Buildings Cost Less

If your housing requirement calls for a one-story or a two-story building a genuine saving for you will result in the service Truscon offers. To avail yourself of that service you need only to phone the nearest Truscon Sales Office. There are 60 of these offices in the principal cities of the entire country, and in each one a Truscon Steel Building specialist who will gladly consult with you.

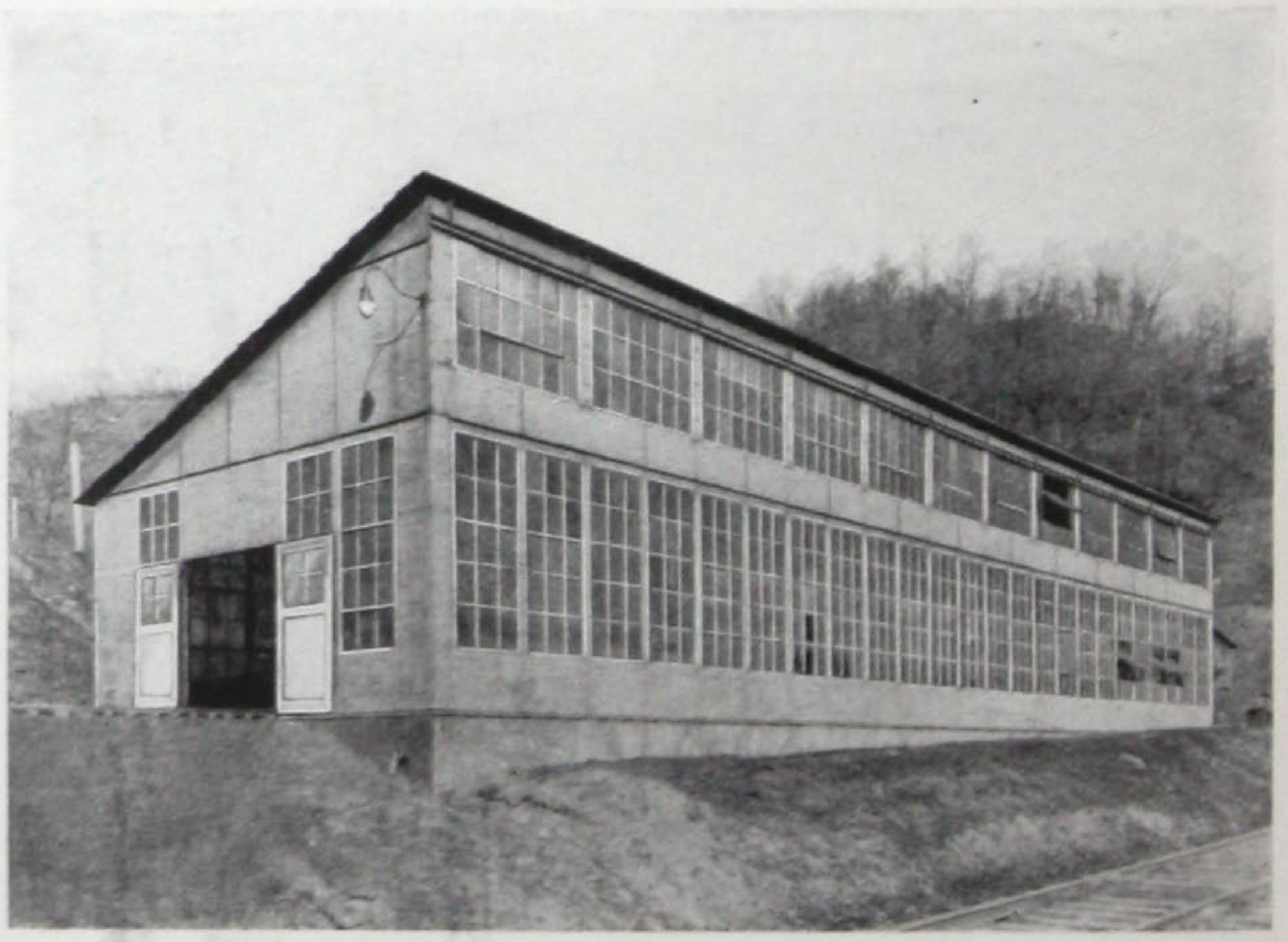
He will show you the many economies of Truscon Steel Buildings, and why you get more permanence, more flexibility, more assurance of consistent, satisfactory service for every dollar invested than you can get in any other appropriate type of construction.

The nearness and efficiency of Truscon Service is an economy in itself. Truscon's world-wide organization of engineers is without a peer in breadth of experience and recognized skill. The help of that organization is yours for the asking.

Twenty Truscon Warehouses scattered from coast to coast constitute a source of emergency supply which assures uninterrupted delivery on all Truscon products.

At the Truscon plant economy in manufacture by means of standardization and quantity production has always been a fundamental policy. The high quality of Truscon Steel Buildings and their remarkable low first cost are reflections of this policy.

A "TRUSCONIZED" GLASS FACTORY



REPAIR SHOP FOR IMPLEMENTS

TRUSCON BUILDING LAID OUT TO BEST ADVANTAGE FOR IRON FOUNDRY

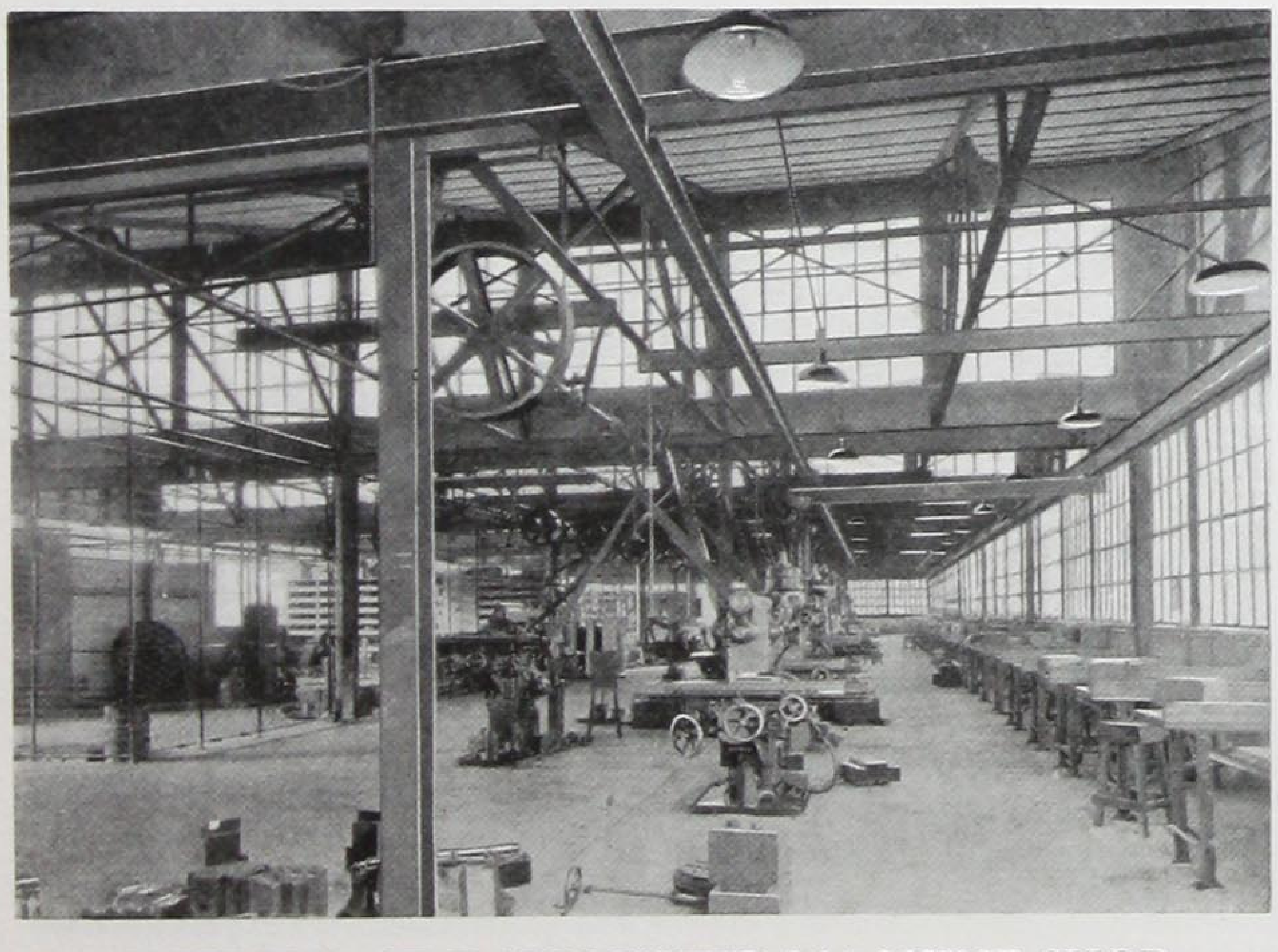
Provisions for Economical Interior Arrangement

TRUSCON BUILDINGS
are designed and built to perform a certain definite service.

AN example of the care with which Truscon Buildings are designed is afforded by the attention paid to interior arrangement. Truscon engineers are called upon to solve the most difficult of layout problems. Their consistent success is not surprising in view of the wide experience which they draw upon.

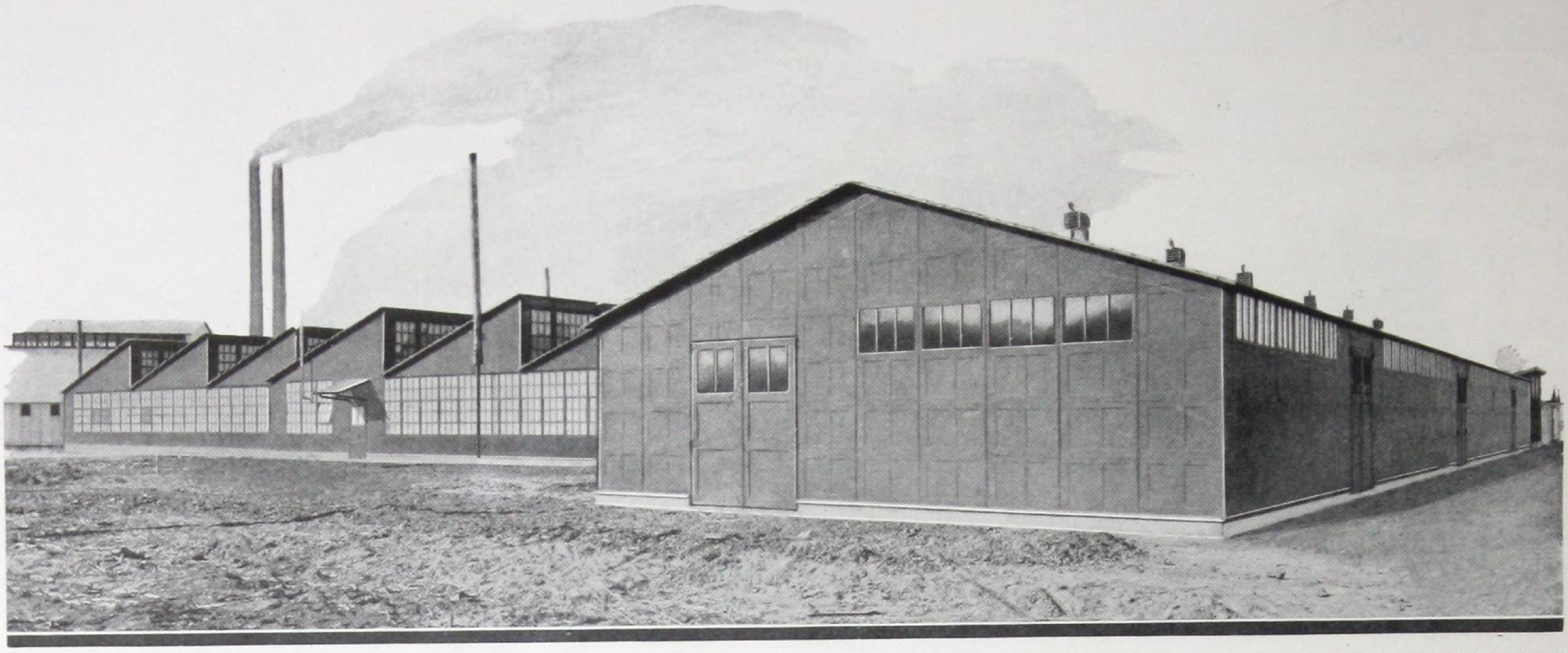
The construction of Truscon Buildings provides ample support for line shafting. Hangers for shafting and for motors can be attached to the columns and column beams with jack shafts and counter shafts attached to a center point in the building. Where a crane is to be installed, additional supports are used for carrying the crane rails. This arrangement permits the erection of cranes without imposing the weight of their structures upon the building columns.

Light trolleys or monorails may be installed without additional support as the trusses are designed to carry their weight.



INTERIOR OF DAYLIGHTED MACHINE SHOP

SHEEP BARN IN STOCK RAISING INDUSTRY



THE COMPLETE PLANT OF A LARGE MANUFACTURING INSTITUTION COMPOSED OF TRUSCON BUILDINGS

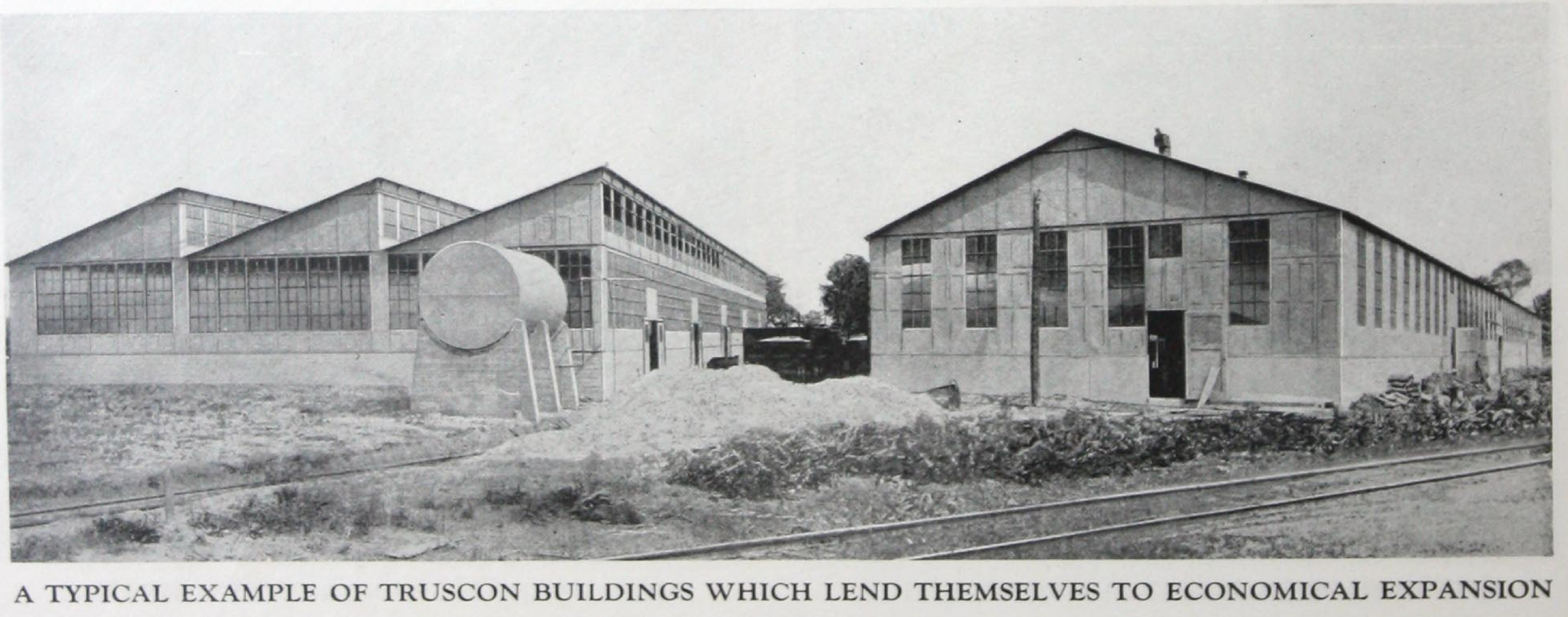
Have You Provided for Economical Expansion?

TRUSCON BUILDINGS
are a flexible construction suited to economic plant development.

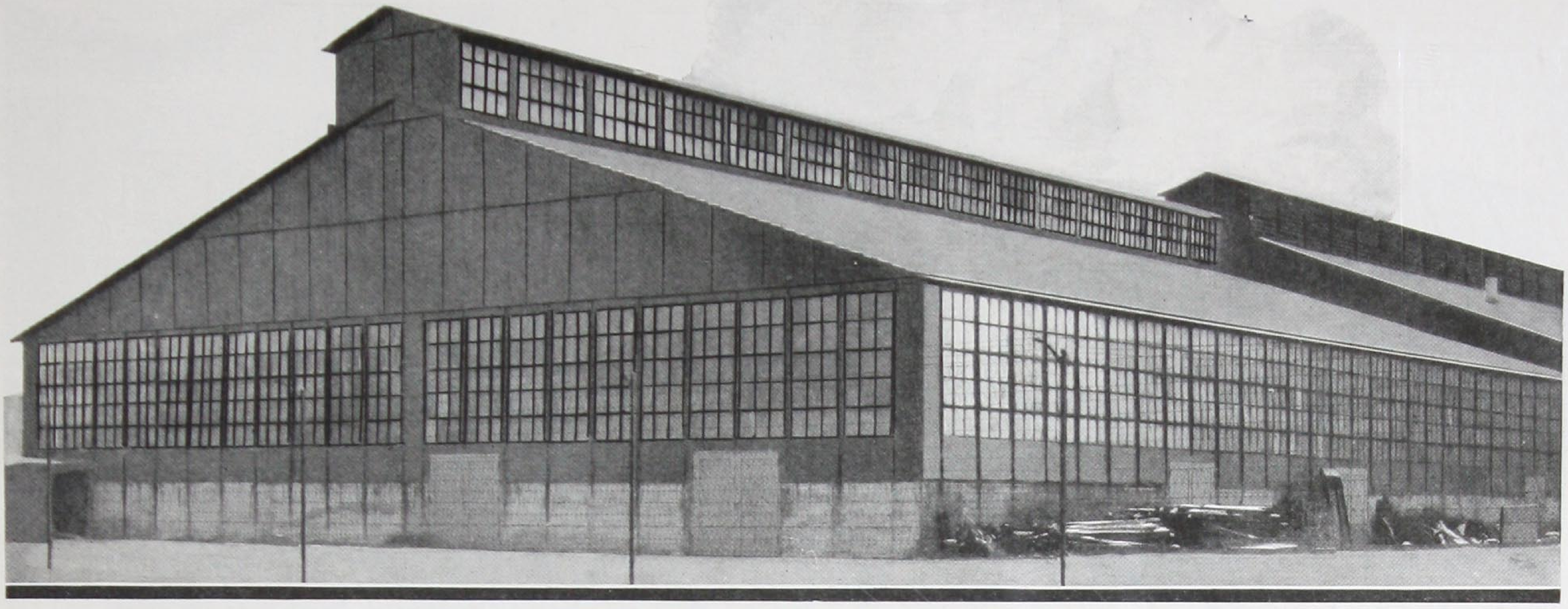
THE advantages of standardized buildings in the light of economical expansion are easily apparent. Almost like sectional bookcases you simply add unit to unit, indefinitely and at will, with production always under proper control.

Requests like this reach Truscon from time to time—"At what price can you duplicate our Truscon Steel Building?" The user may be a manufacturer in urgent need of knowing all the factors involved in a contemplated expansion. Every cost contingent upon housing the new unit is made ready for him by Truscon. Accurate figures are available, sometimes within the space of minutes.

There is another side, too, to expansion—flexibility. Changes of policy—new markets—new methods—new conditions—all contrive to bring this about. With no damage and trouble, with all the speed and convenience any Truscon Steel Building can be dismantled, removed and erected on another site.



A TYPICAL EXAMPLE OF TRUSCON BUILDINGS WHICH LEND THEMSELVES TO ECONOMICAL EXPANSION



ONE OF A NUMBER OF BUILDINGS REPRESENTING A GOOD TYPE FOR FACTORY USE

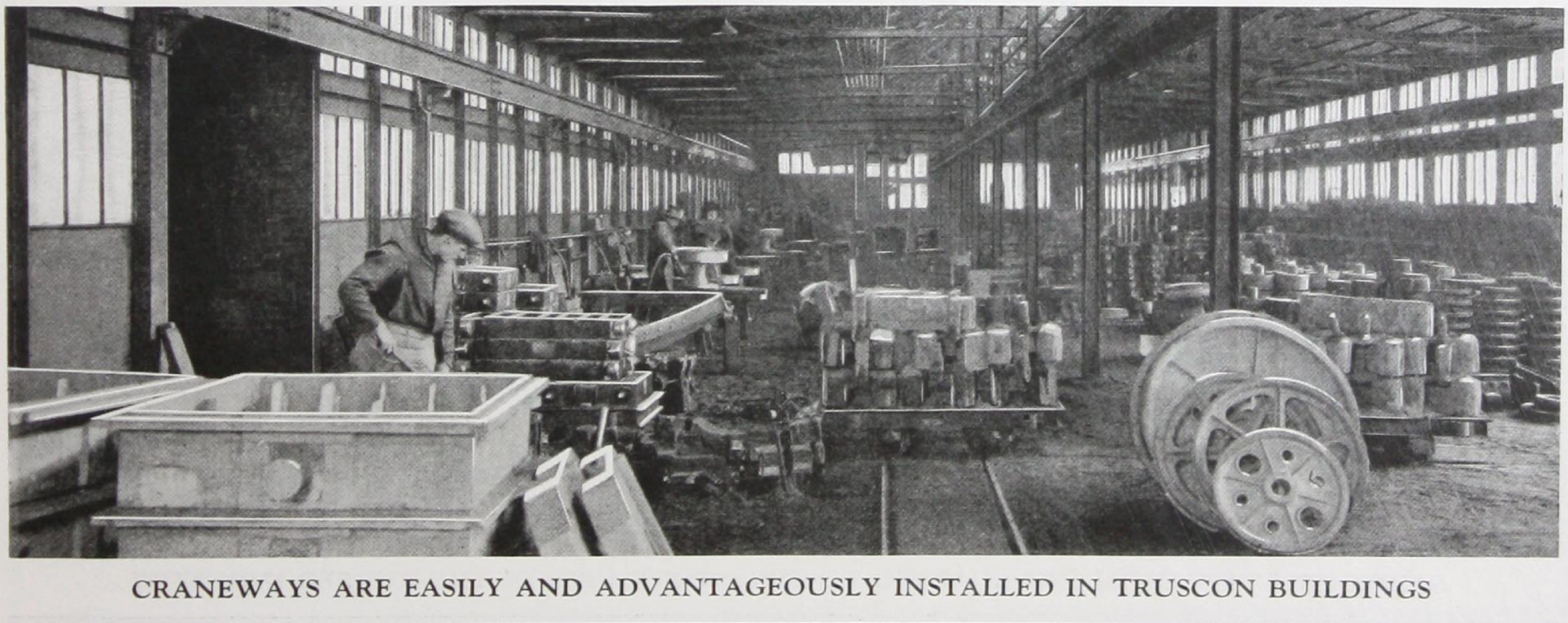
Regular Users Standardize on Truscon Buildings

TRUSCON BUILDINGS
are the lowest cost permanent and fireproof factory construction.

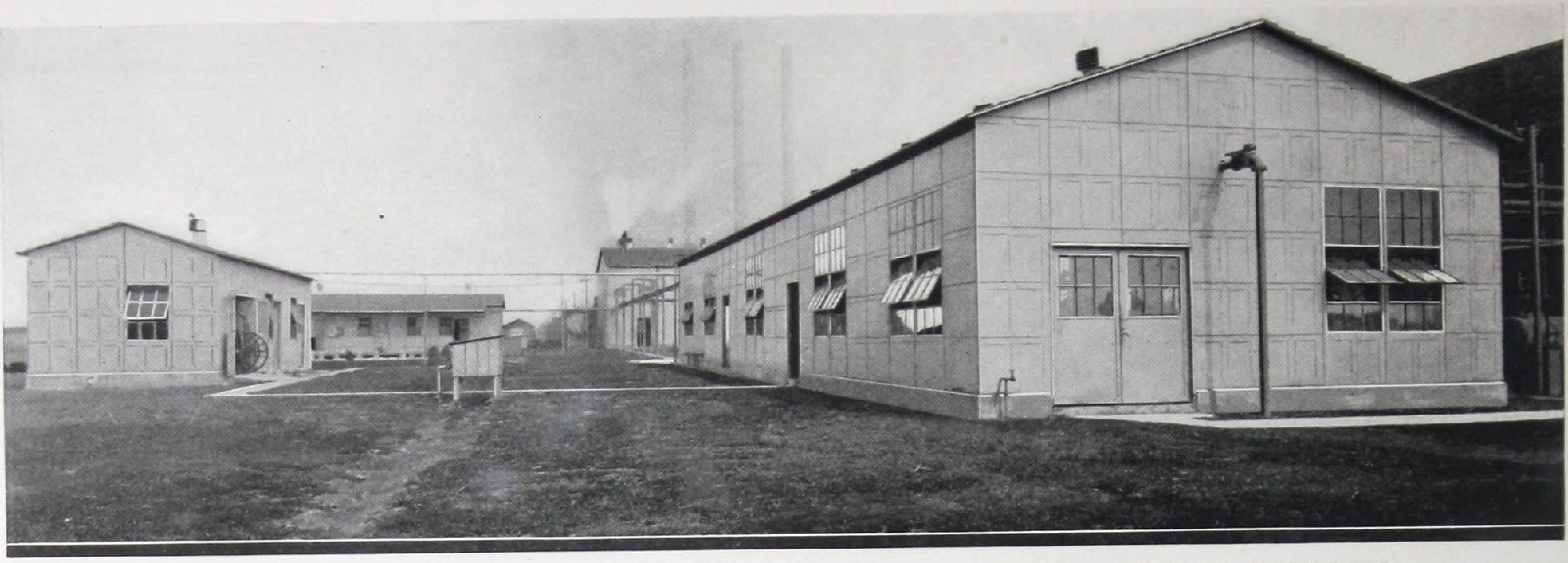
ECONOMY alone makes regular users—the economy that comes from unvarying quality of product and unstinted service. As much as fifty per cent of Truscon's yearly sales come from repeat orders. You, too, may be a regular Truscon customer. It is always with that hope and that possibility in mind that Truscon products are sold.

One Truscon building will soon show you the economy of standardizing on this type of housing. The cost of that building will probably be less than other types of construction. Old friends tell us it is worth much more. We prefer, however, to price Truscon Buildings so low that you are bound to join our regular users.

Truscon economies come largely from simplification and standardization of manufacture. So for years Truscon has been building on that basis—steadily seeking out and keeping the business of those whose housing problems can be most advantageously solved by Truscon economy methods.



CRANEWAYS ARE EASILY AND ADVANTAGEOUSLY INSTALLED IN TRUSCON BUILDINGS



OFFICES, SHOPS, WAREHOUSES, BUNKHOUSES, FIRE-STATIONS AND POWERHOUSES

Consult Truscon Now for Future Savings

TRUSCON BUILDINGS
pay for themselves in from two to three years on earning valuation.

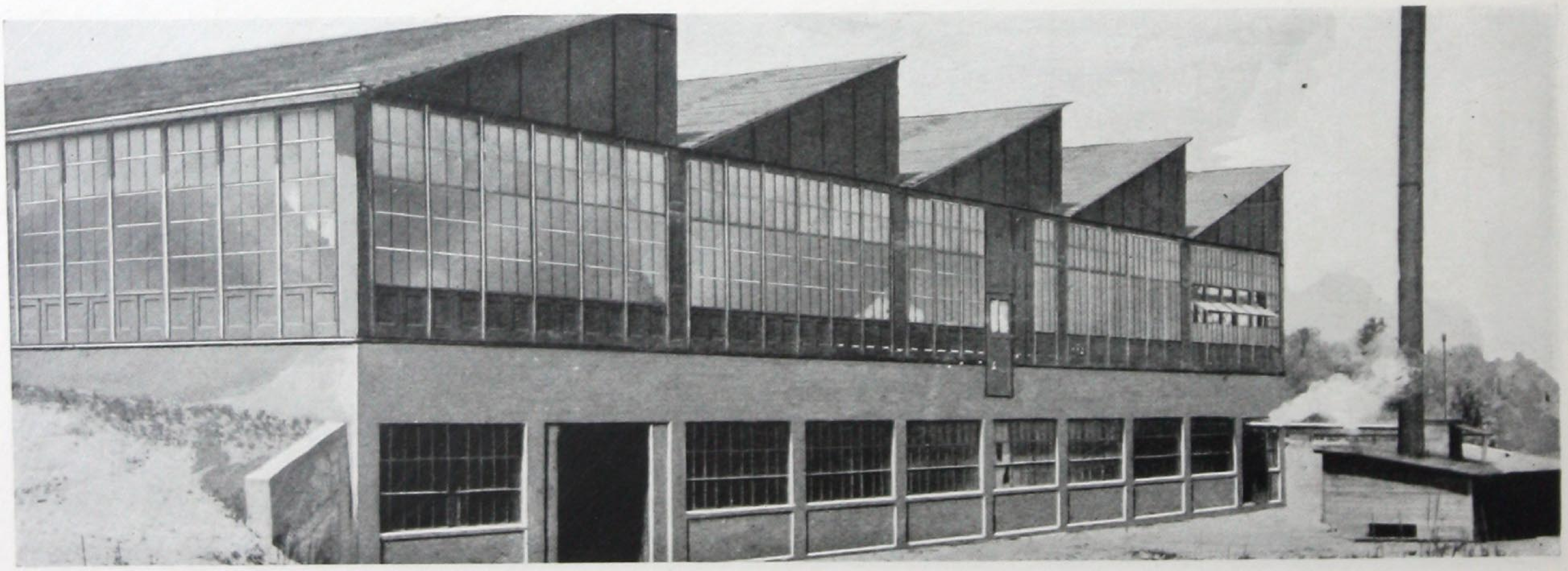
IT is not unusual for the man who is interested in securing the economies of Truscon Buildings to preface his conversation with, "Now my problem is different."

He forewarns us of the unusual difficulties which lie in the way of supplying a suitable building.

Actually, that is the very reason why he should call in Truscon. Truscon experience has encountered all manner of unusual situations. There will always be new problems bobbing up—problems which no one yet has had to solve. Truscon has shown ample evidence of possessing the ability to do the unusual. Whether the problem is simple or complex, Truscon will supply an economical building that is preeminently suitable.

No matter what your present program may be it will pay you to get in touch with Truscon. Many users of Truscon Buildings consider Truscon a permanent advisory counsel in all matters pertaining to building.

Without the slightest obligation and at no cost whatever they have constantly available the unlimited resources of experience which Truscon has gleaned from a quarter-century of international building leadership.



SAWTOOTH TYPE BUILDING ADAPTED TO TWO-STORY USES IN THE RUBBER INDUSTRY

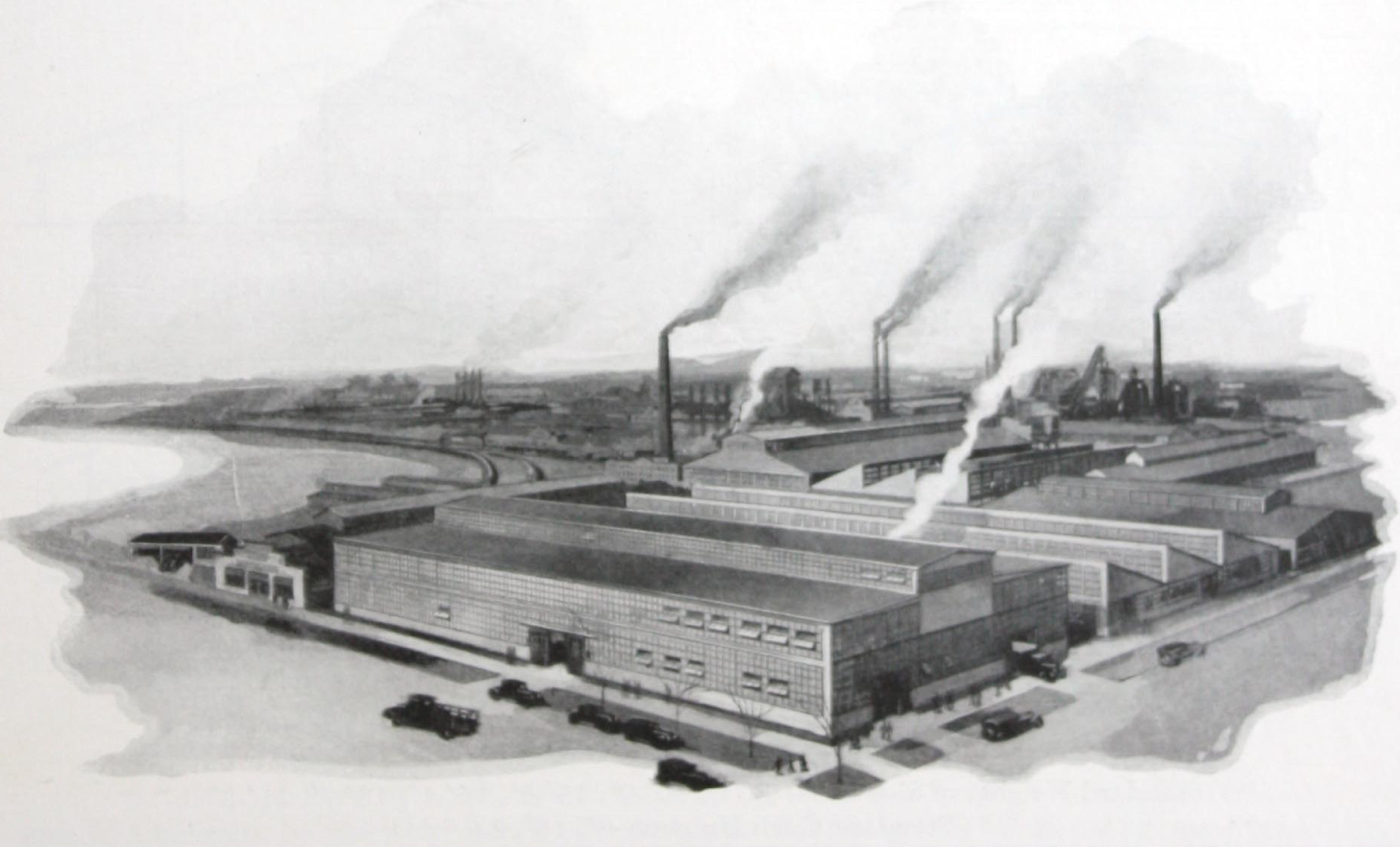
TRUSCON PERMANENT BUILDINGS

Types and Details of Construction

THE completeness with which Truscon Standard Steel Buildings lend themselves to the service of General Industry has been illustrated in the foregoing pages.

At least a slight acquaintance with the various types and details of their construction is necessary to an appreciation of the extraordinary quality, value, and adaptability of Truscon Standard Steel Buildings.

TRUSCON STEEL COMPANY, YOUNGSTOWN, OHIO



PITCHED ROOF TYPES—SERIES "A"

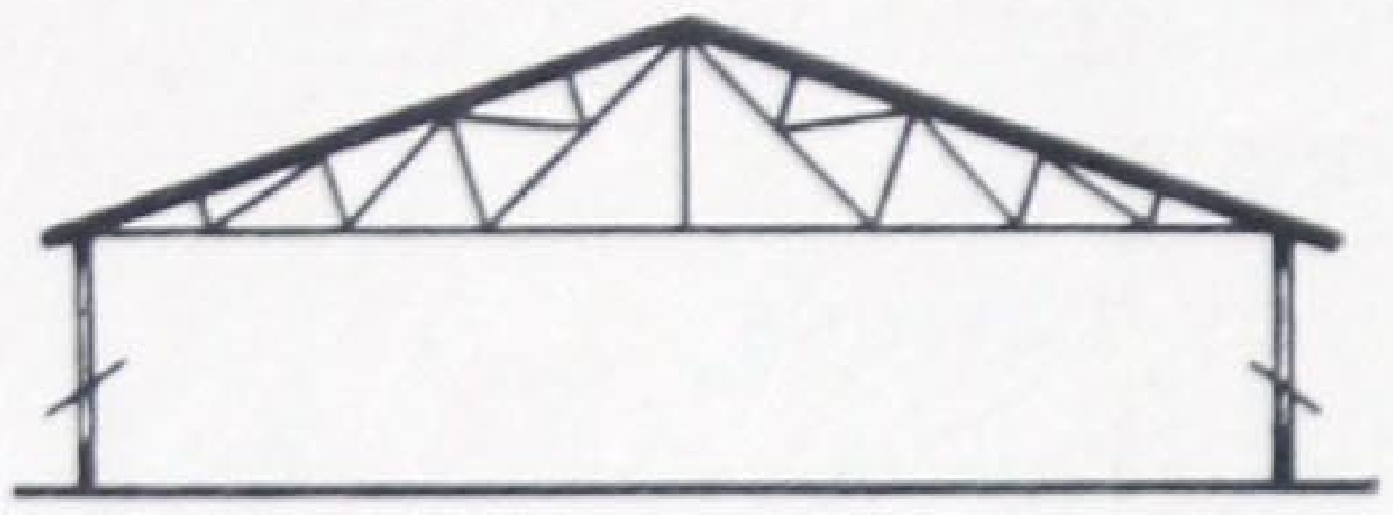
with Interlocking Plate Type Roofs (page 22) or "Steeldeck" Roofs with Built-up Roofing (page 23)

THE roof pitch of all Series "A" buildings is standard, 4″ in 12″. These pitched roof buildings allow maximum headroom with minimum wall heights.

Heights given for Series "A" buildings are wall heights, also clearance heights and they apply to all types of the series. The width is the distinguishing dimension.

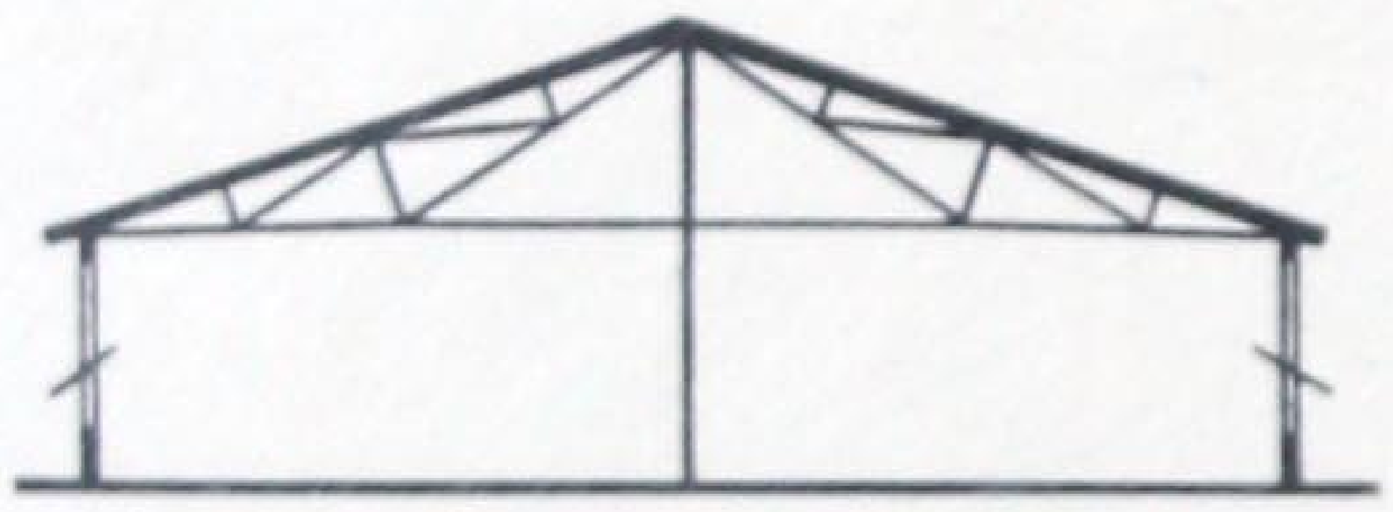
These buildings can be secured in many different widths and any length in even feet. The recurrence of the same spans in different types, makes possible an almost unlimited choice of Truscon Buildings.

Roofs for Series "A" buildings may be of Truscon "Steeldeck" with built-up waterproofing or the Truscon Interlocking Type.

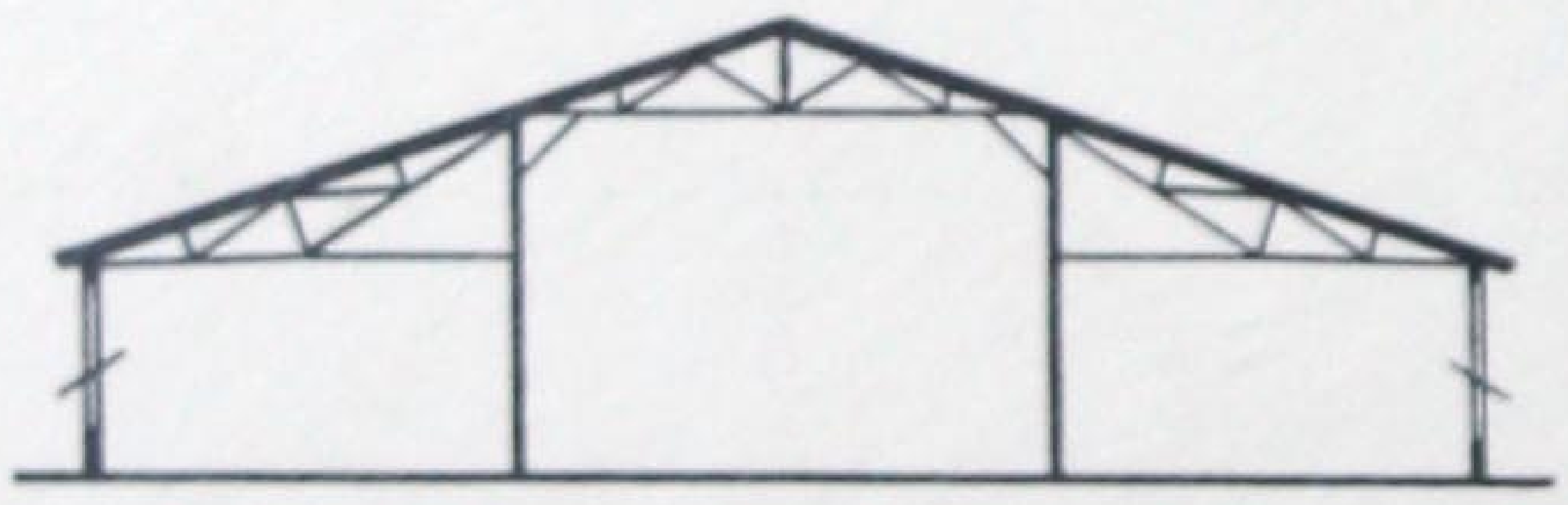


TYPE 1
Widths—8′-12′-16′-20′-24′-28′
Lengths—Multiples of 2′-0″

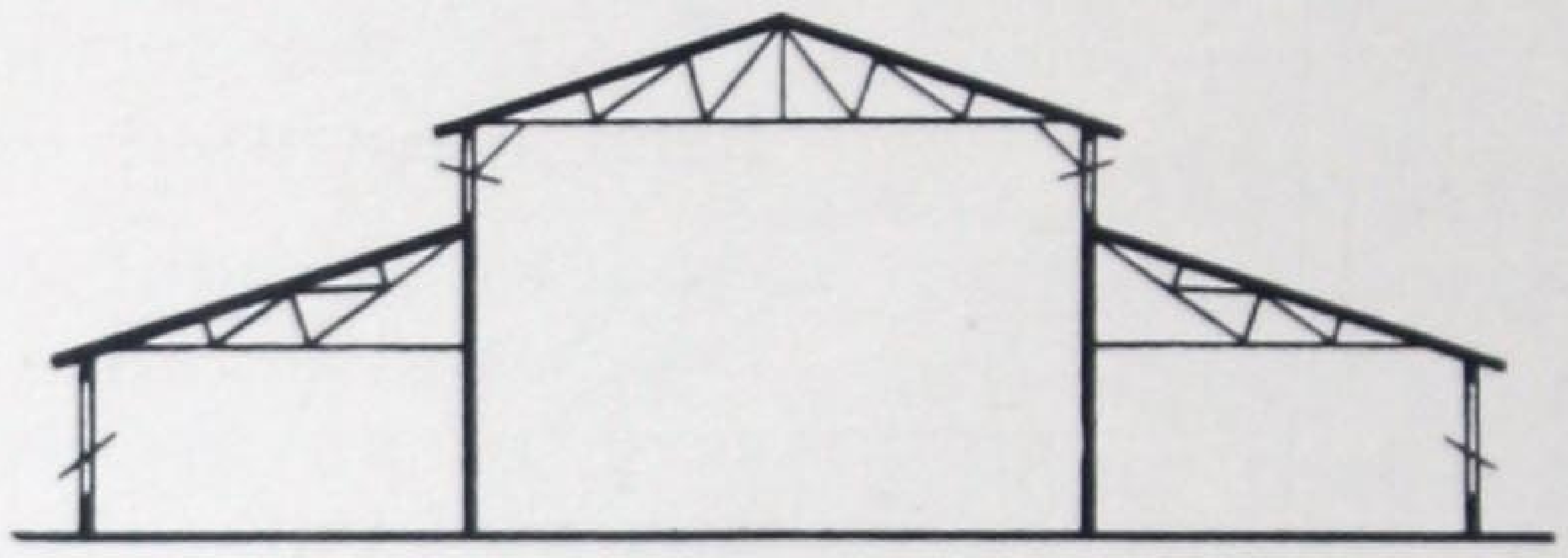
TYPE 1-S
Widths—32′-40′-48′-50′-60′-68′
Lengths—Multiples of 2′-0″



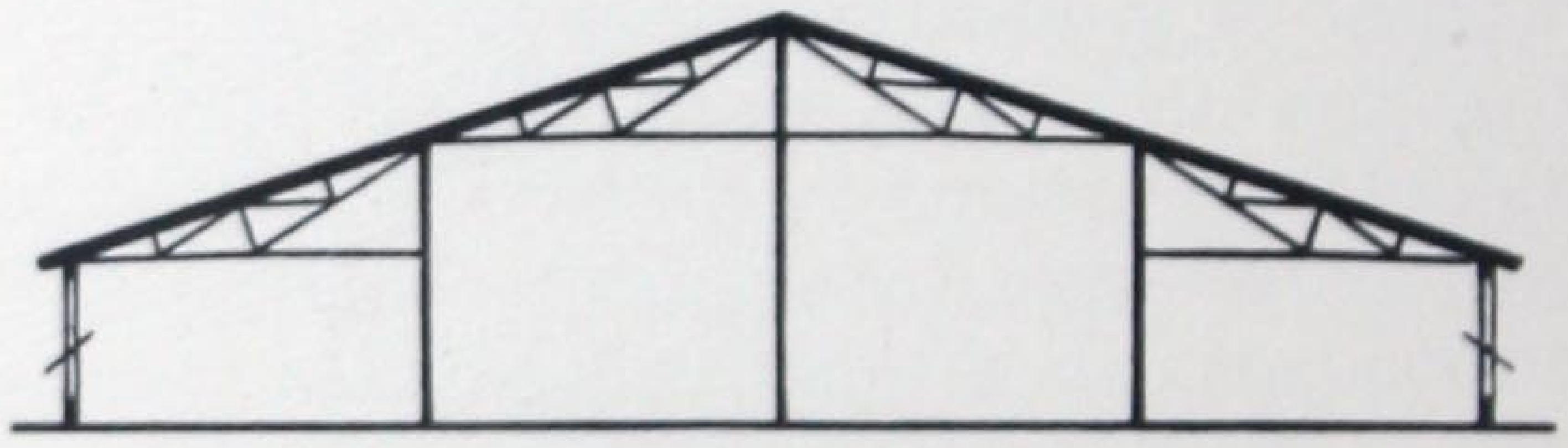
TYPE 2
Widths—40′-48′-50′-56′-60′
Lengths—Multiples of 2′-0″



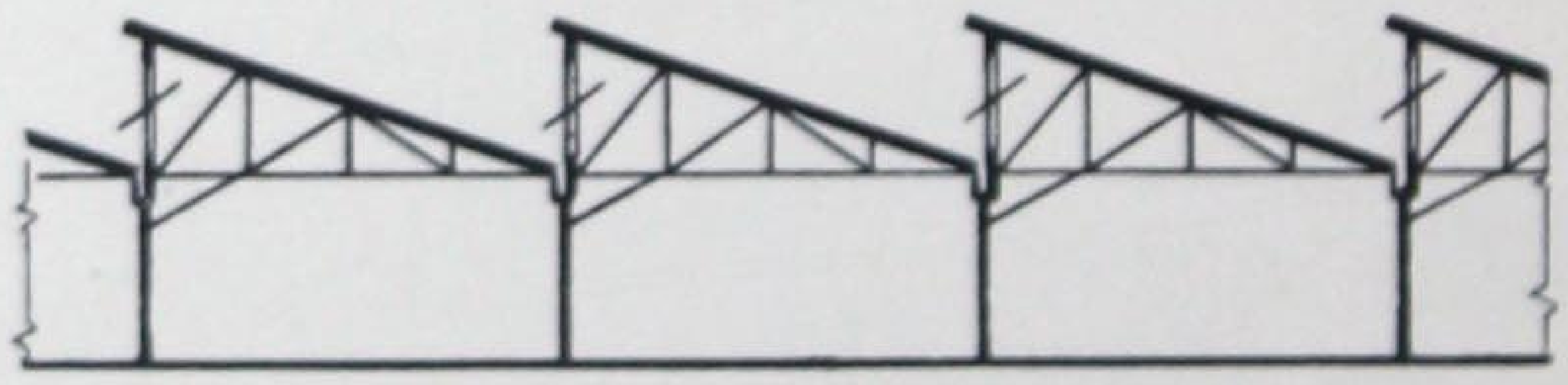
TYPE 3
Widths—56′-60′-64′-68′-72′-76′-80′-84′-88′-96′-98′-106′-108′-116′
Lengths—Multiples of 2′-0″



TYPE 3-M
Widths—60′-64′-68′-72′-76′-80′-84′-88′-90′-96′-98′-100′-106′-108′-116′
Lengths—Multiples of 2′-0″



TYPE 4
Widths—80′-100′-112′
Lengths—Multiples of 2′-0″



SAWTOOTH TYPE
Widths—Any Multiple of 28′-0″
Lengths—Multiples of 2′-0″

Standard Heights of Sidewalls: 8′-1″, 10′-9″, 13′-5″, 16′-1″, 18′-9″, 21′-5″
Standard Curb Heights: 8″, 16″, 24″

FLAT ROOF TYPES—SERIES "B"

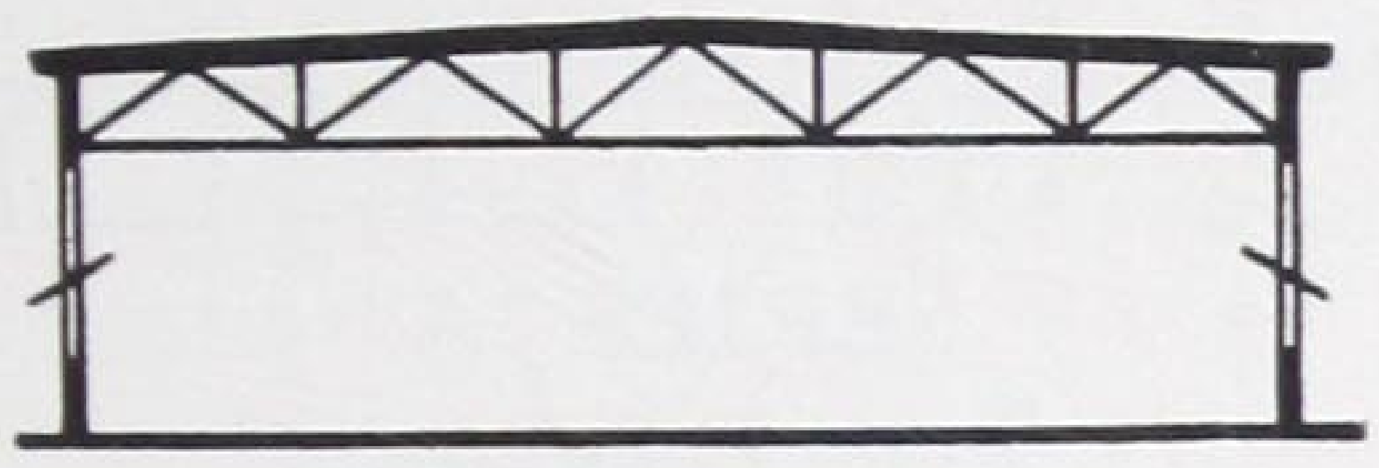
furnished with "Steeldeck" Roofs and Built-up Roofing (page 23)

THE flat roof design calls for less roof area, and roofing costs are minimized. The types of "B" Series are more desirable for wide buildings; they combine greatest headroom with the least cubic content.

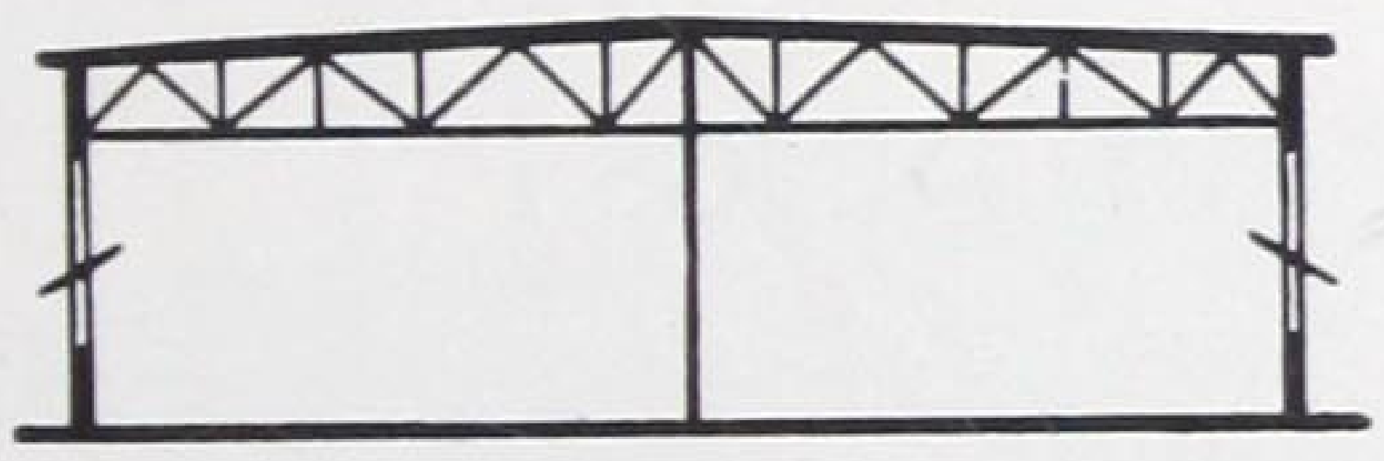
This means the elimination of waste overhead space and results in substantial savings in the cost of heating such a building.

The larger variety of wall heights of Series "B" Buildings offer a greater choice of areas that can be filled with sidewall sash to admit more daylight to the interior.

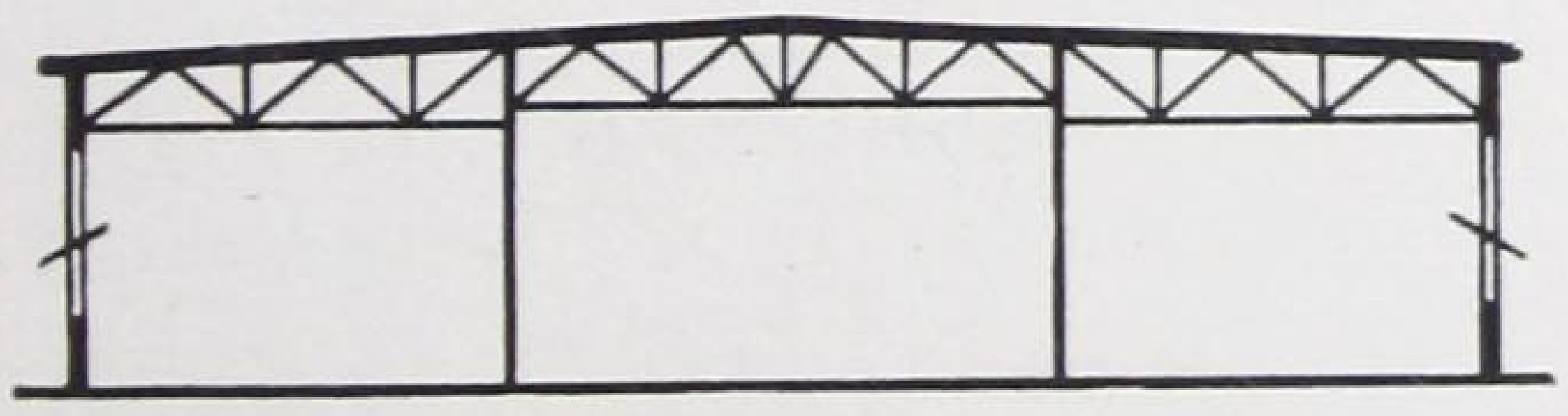
Series "B" Truscon Buildings with "Steeldeck" Roofs can be *insulated* to any degree to meet every special condition. Built-up roofing waterproofs permanently.



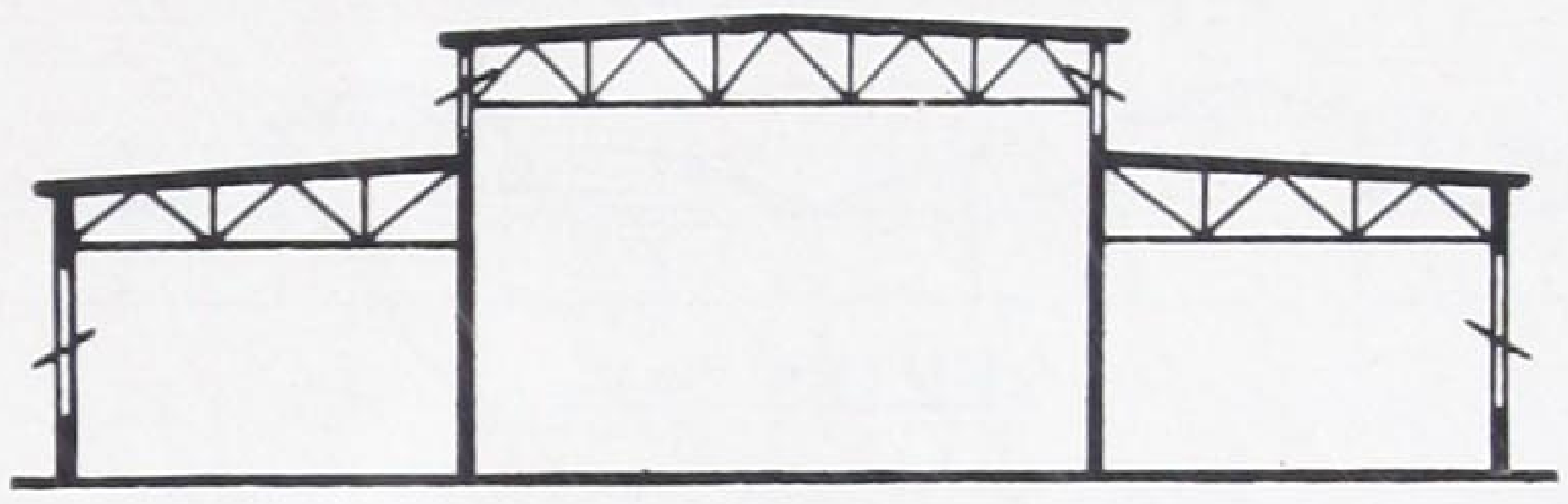
TYPE 1
Widths—20′-24′-28′-32′-36′-40′-44′-48′-50′-52′-56′-60′
Lengths—Multiples of 2′-0″



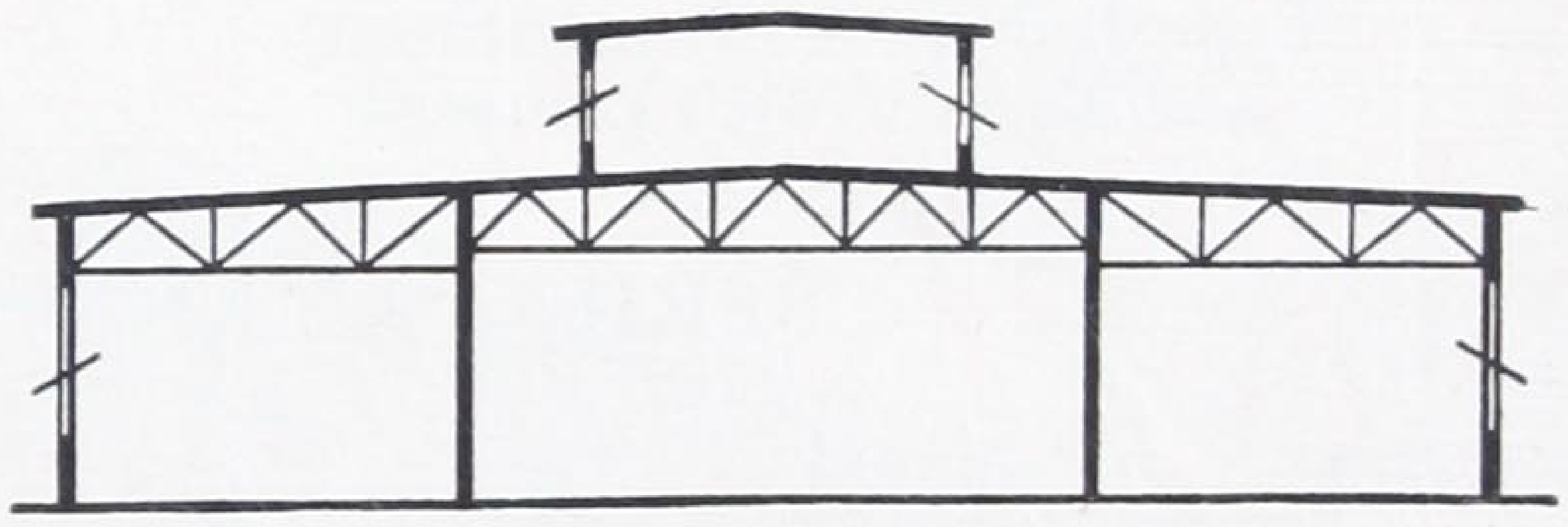
TYPE 2
Widths—40′-48′-56′-60′-64′-80′-100′-120′
Lengths—Multiples of 2′-0″



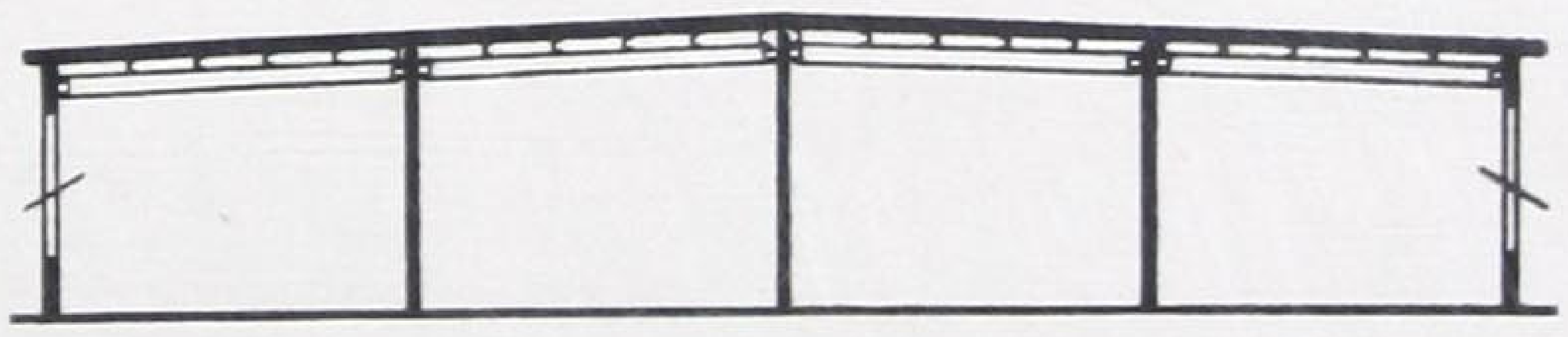
TYPE 3
Widths—64′-68′-72′-80′-84′-88′-90′-96′-106′-116′
Lengths—Multiples of 2′-0″



TYPE 3-M
Widths—96′-104′-112′-114′-120′-124′-130′-132′-140′-150′-160′-170′-180′
Lengths—Multiples of 2′-0″



TYPE 3 (**With Lantern**)
Widths—64′-68′-72′-80′-84′-88′-90′-96′-106′-116′
Lengths—Multiples of 2′-0″



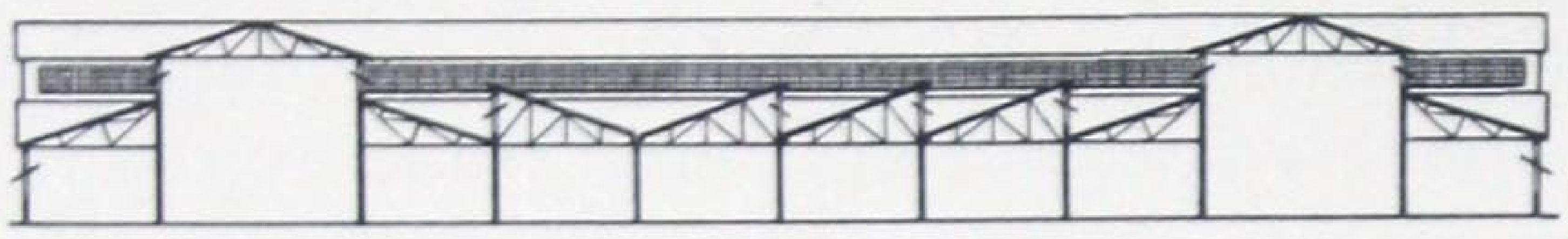
TYPE 4
Widths—80′-88′-96′-100′-104′-108′-112′-116′-120′
Lengths—Multiples of 2′-0″

Standard Heights of Side Walls:
1[illegible]′-6¼″, 14′-2¼″, 16′-10¼″, 19′-6¼″, 22′-2¼″, 24′-10¼″, 27′-6¼″, 30′-2¼″, 32′-10¼″.
Standard Lantern, 24 feet wide, can be placed on any of the Series "B" Truscon Standard Buildings.

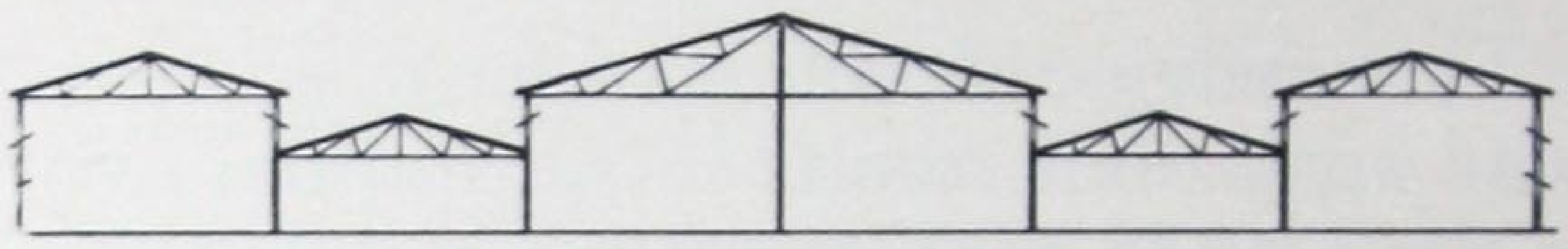
Series "A" and "B" Buildings in Combinations

THE Series "A" and Series "B" Types of Truscon Buildings can be variously grouped. These groups can be any length and any width; considerable variation in height is possible. Standardization permits indefinite extension. Group plans need be completed only as growing needs dictate. Lanterns may be used for additional daylighting and ventilation. Canopies and lean-tos can be added and may be removed to make way for extensions. The Truscon plan is, therefore, flexible, thus adapting itself to both the present individual needs and possible future requirements.

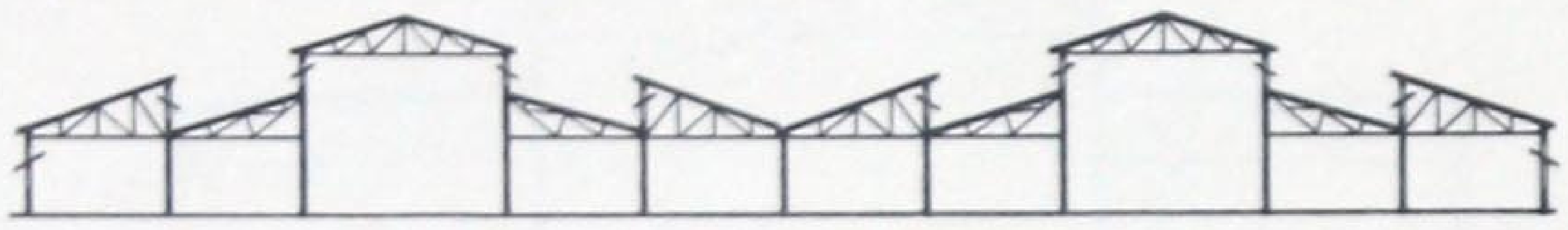
SERIES "A" TRUSCON BUILDINGS



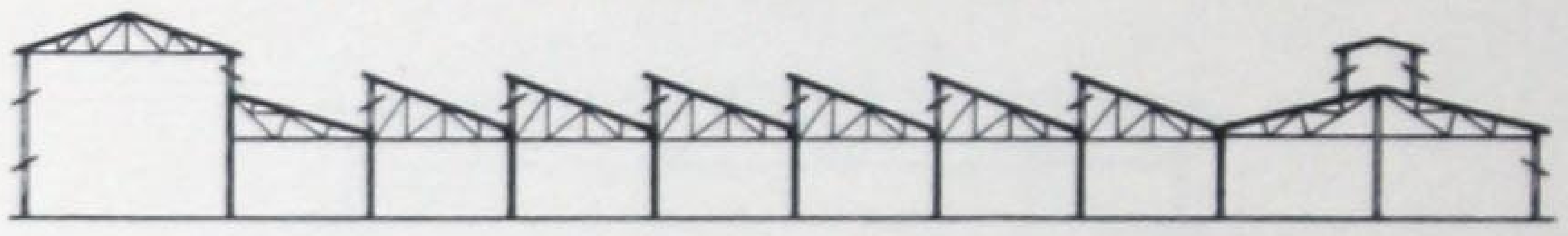
SERIES "A"
Types 3-M and Sawtooth



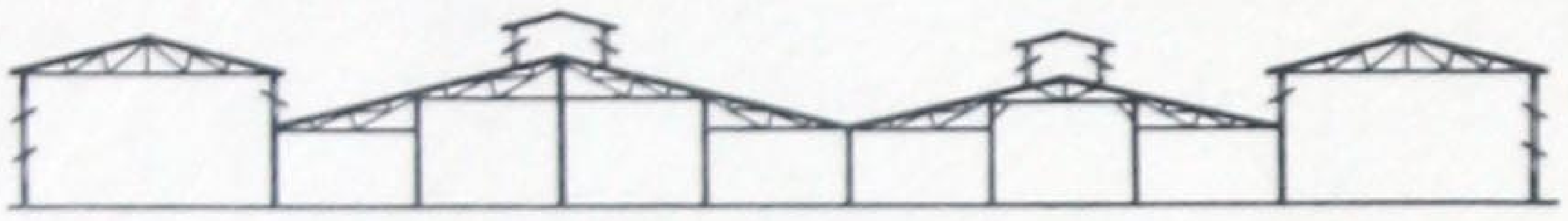
SERIES "A"
Type 1 and Type 2



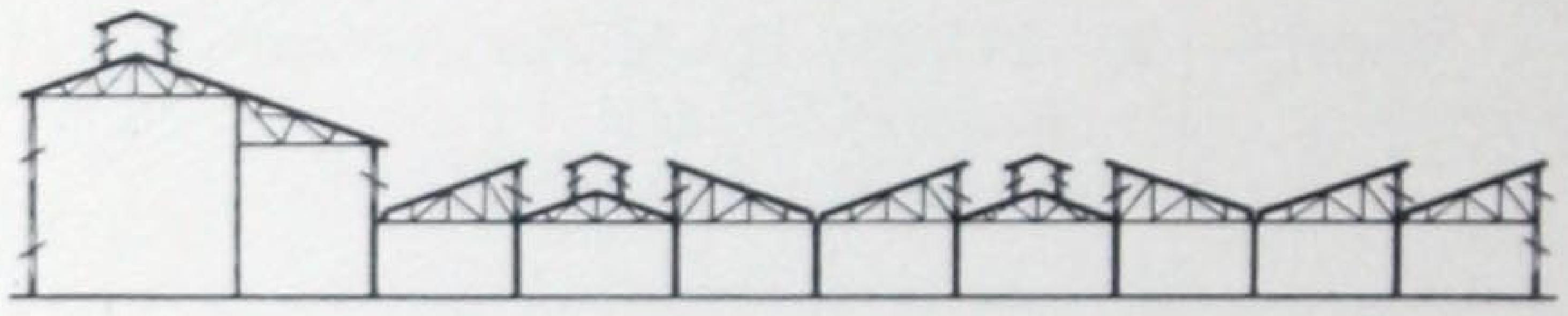
SERIES "A"
Types 3-M and Sawtooth



SERIES "A"
Type 1, Lean-to,
Sawtooth and Type 2 (with Lantern)

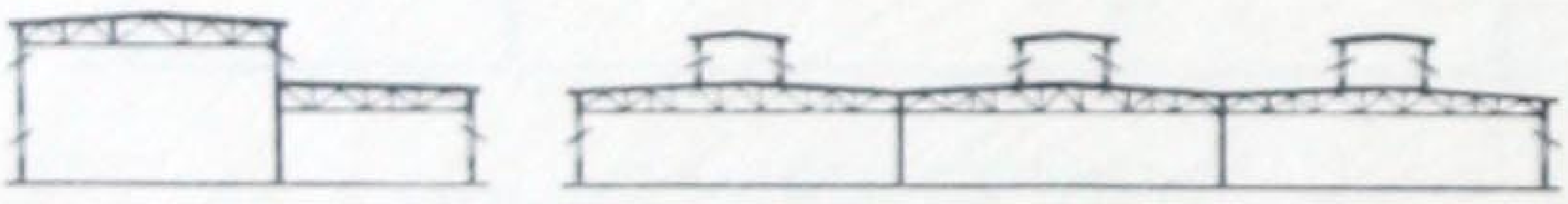


SERIES "A"
Type 1, Type 4 (with Lantern)
and Type 3 (with Lantern)

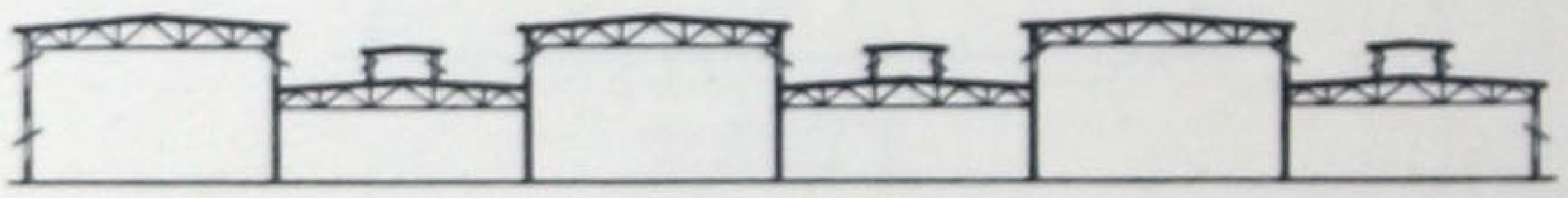


SERIES "A"
Type 1 (with Lantern), Lean-to and Sawtooth

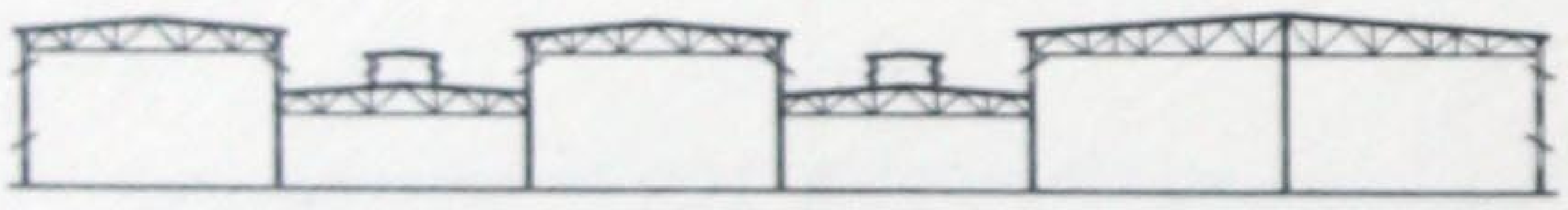
SERIES "A" AND "B" TRUSCON BUILDINGS



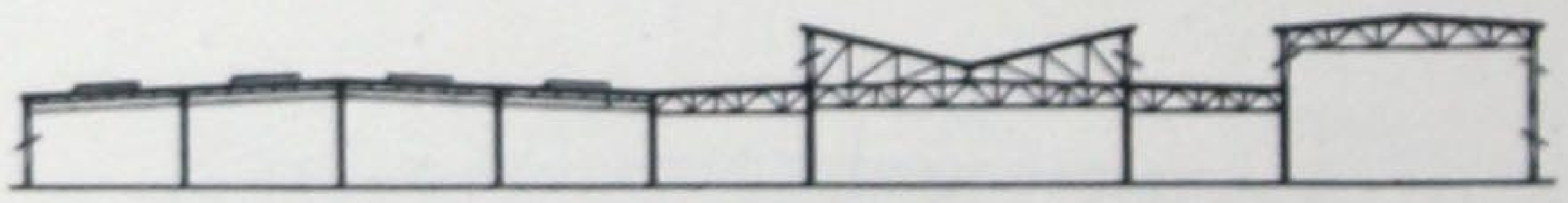
SERIES "B"
Type 1 (with Lean-to)
Type 1 (with Lantern)



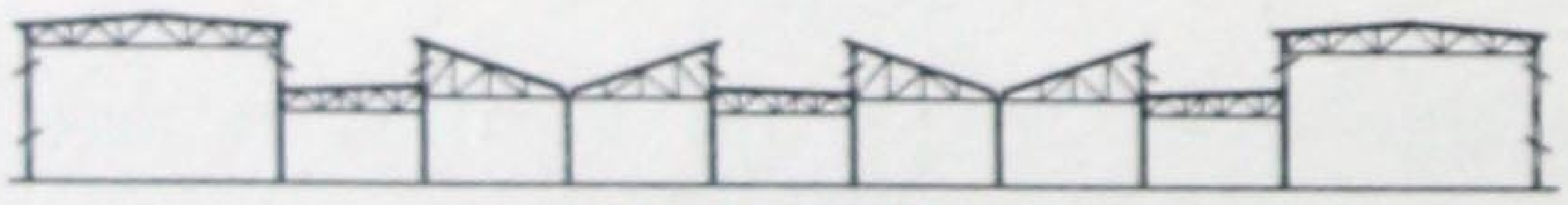
SERIES "B"
Type 1 (with and without Lantern)



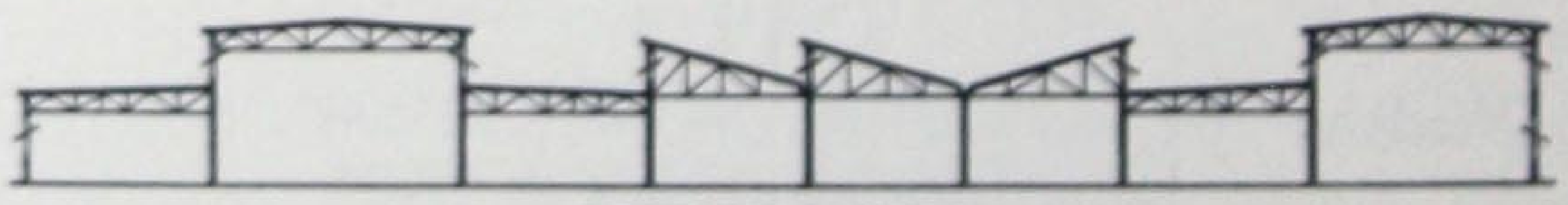
SERIES "B"
Type 1, Type 1 (with Lantern) and Type 2



SERIES "B"
Type 4 (with Skylights), Type 3 (with Valley Lantern)
and Type 1



SERIES "B"
Type 1, Lean-to
SERIES "A"
Sawtooth Type



SERIES "B"
Type 3-M, Type 1 and Lean-to
SERIES "A"
Sawtooth Type

Truscon Buildings Are all Truscon Parts

1 Truscon Standardized Structural Steel Trusses.

2 Truscon Mechanical Operators for Controlling Sash Ventilators.

3 Truscon Seamless Tubular Rail Steel Doors, Fourfold Type.

4 Truscon Standard Steel Doors, Swing or Sliding Types, Single or Double.

5 Truscon Projected or Pivoted Windows for the Office.

6 Truscon Reinforcing Bars of New Billet Steel for Concrete.

7 Truscon Steel Channels for Partition Studding.

8 Truscon Metal Lath and Plaster Partition.

9 Truscon Steel Columns.

10 Truscon Wire Mesh Reinforcing for Concrete.

11 Truscon Floor Hardener for Concrete Floors.

12 Truscon Edge Protectors for Concrete Corners.

13 Truscon Steel Windows with Center Pivoted Ventilators.

14 Truscon Copper Steel Standard Wall Panels.

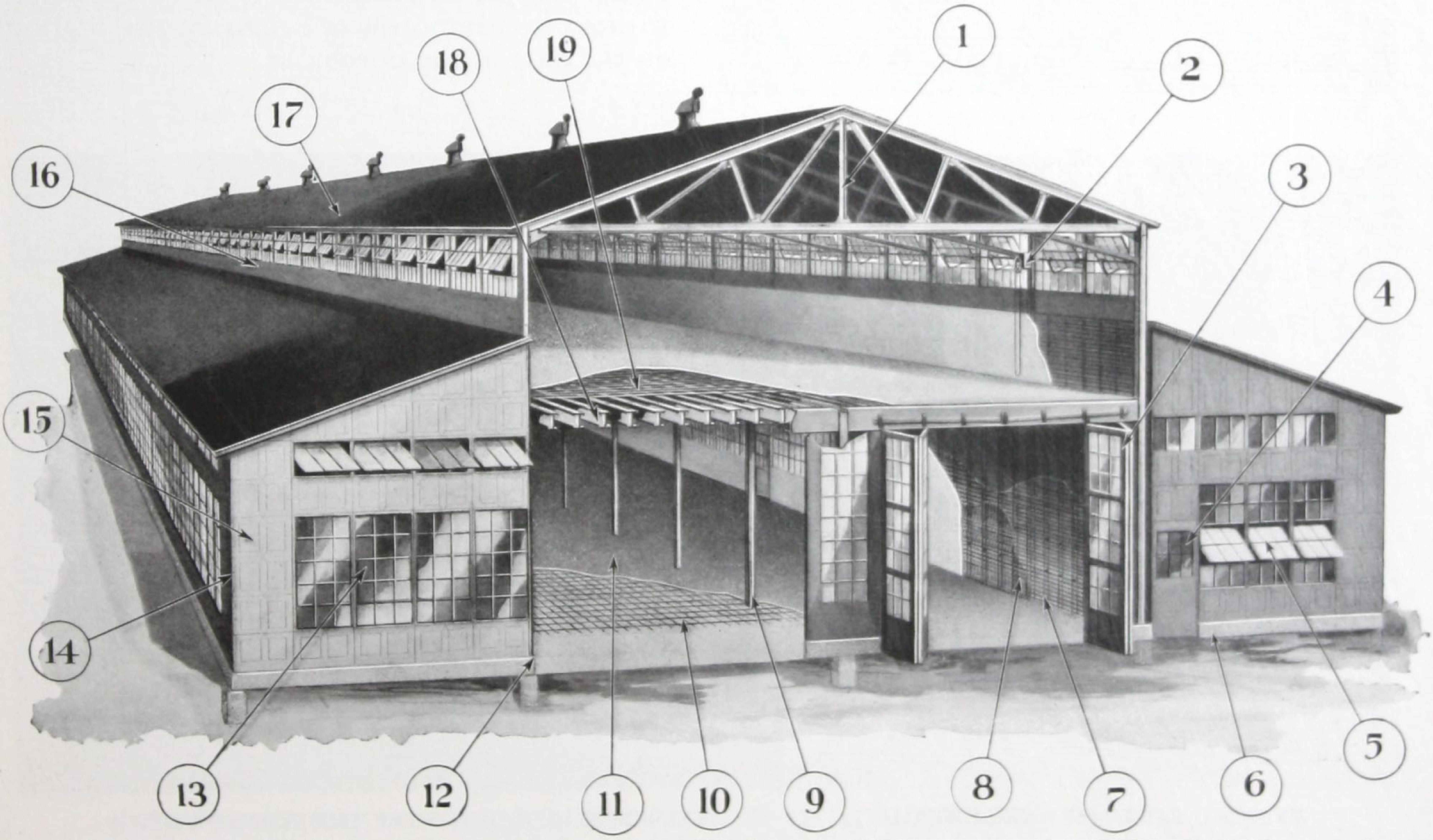
15 Truscon Steel Paints for Exterior and Interior Maintenance.

16 Truscon Special Putty for Glazing Steel Windows.

17 Truscon Interlocking Steel Roofing or "Steeldeck" Roofs

18 Truscon Steel Joists (Truscon Floretyle Construction may be also used).

19 Truscon Hy-Rib Lath for Reinforcing and Forming Concrete Floor Slabs.



Foundation Details Are Furnished by Truscon

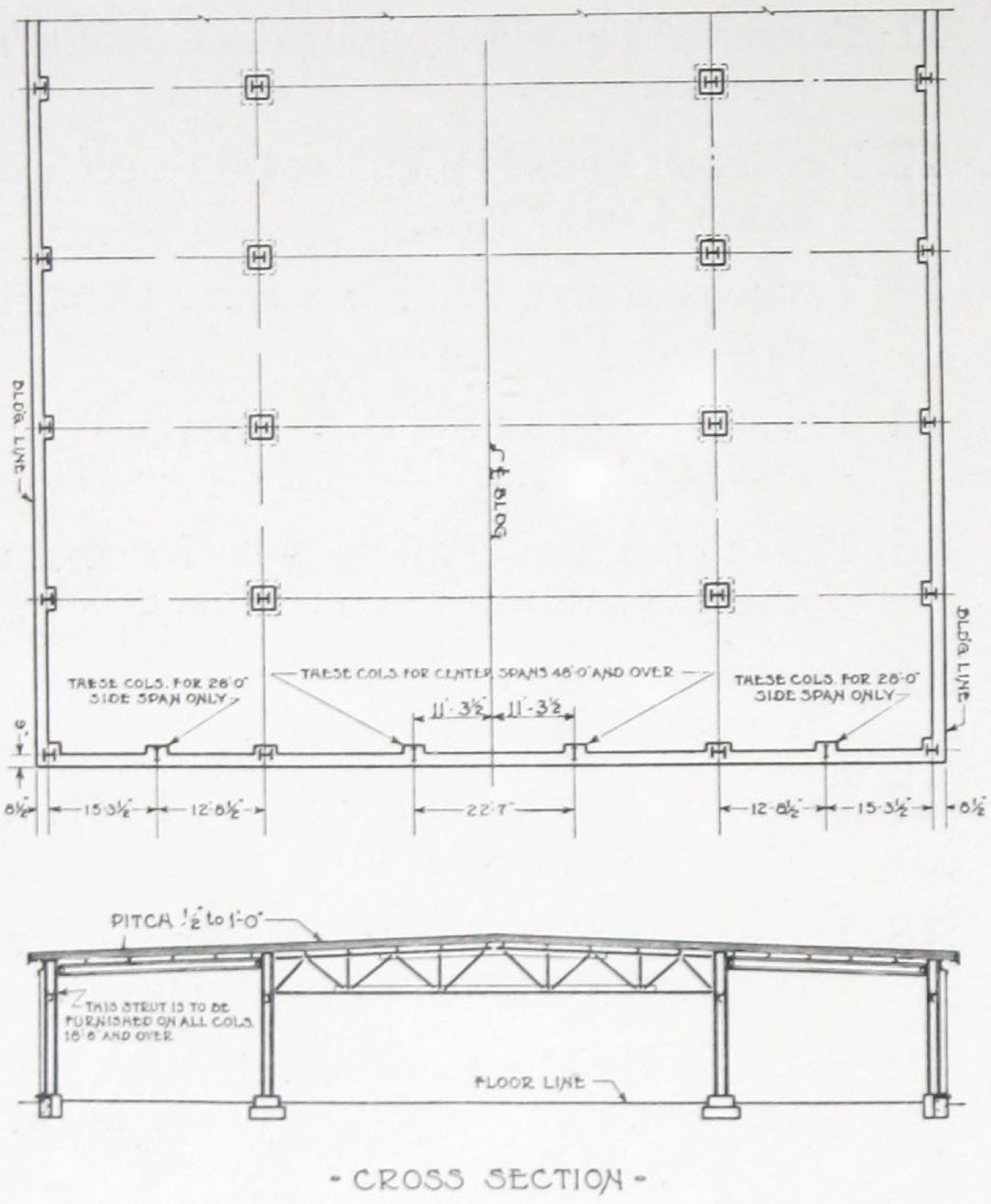
PERMANENT rigidity of a building depends on its foundations. It is natural and practical, therefore, that the Truscon Steel Company furnish the foundation details for Truscon Buildings.

Immediately following the completion of contract arrangements, studies are made of local conditions and foundation plans are prepared. Truscon engineers are thoroughly familiar with the normal conditions which must be considered in foundation design in any part of the country.

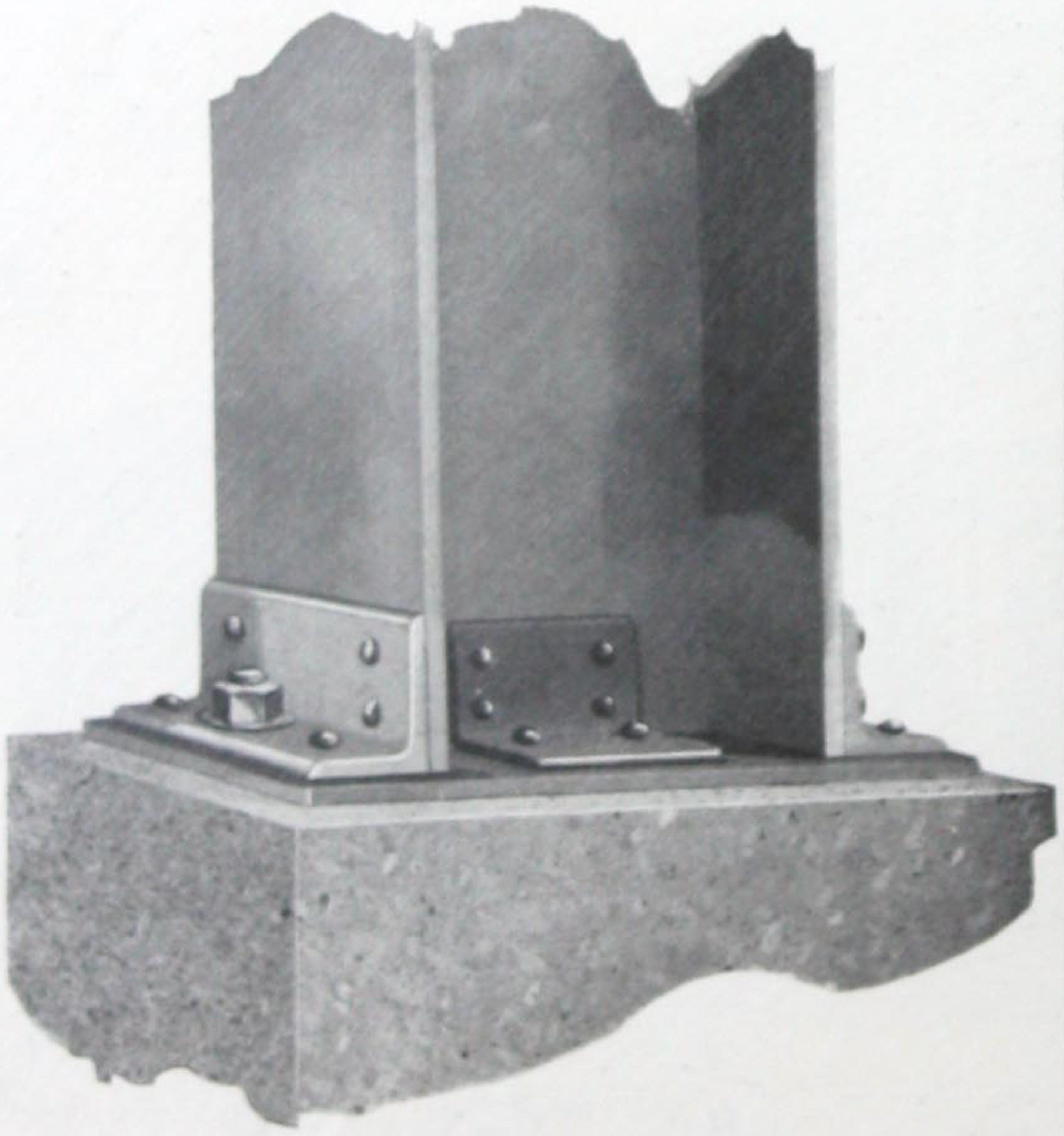
The work of laying the foundation commences at the same time as the work of assembling the building parts in the shop. The actual laying of the foundation is done by the customer or by a reputable contractor selected by and responsible to him.

By the time the building is shipped, the foundation has been finished and is ready to receive the building for which it has been specially designed.

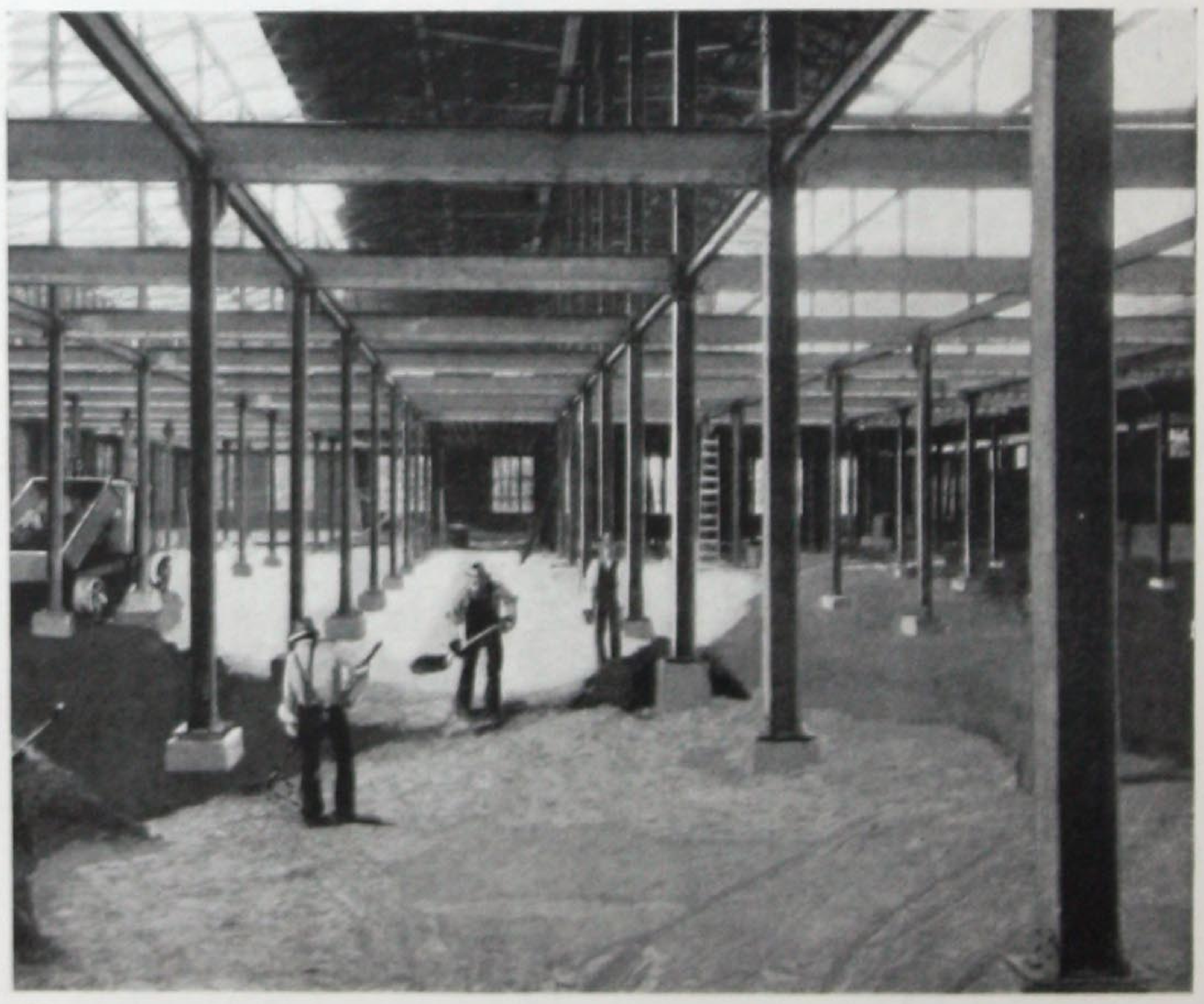
Thus, Truscon's building plan functions practically and progressively to completion without loss of motion or necessity of attention on the part of the purchaser.


BLDG LINE
℄ BLDG
BLDG LINE
THESE COLS. FOR 28'0" SIDE SPAN ONLY
THESE COLS. FOR CENTER SPANS 48'0" AND OVER
THESE COLS. FOR 28'0" SIDE SPAN ONLY
11'-3½"
11'-3½"
6"
8½"
15'-3½"
12'-8½"
22'-7"
12'-8½"
15'-3½"
8½"
PITCH ½" to 1'-0"
THIS STRUT IS TO BE FURNISHED ON ALL COLS. 18'8" AND OVER
FLOOR LINE
- CROSS SECTION -

TYPICAL FOUNDATION PLAN



TYPICAL COLUMN BASE DETAIL



TRUSCON BUILDINGS FIT THE FOUNDATIONS

Floors Reinforced and Hardened for Permanency

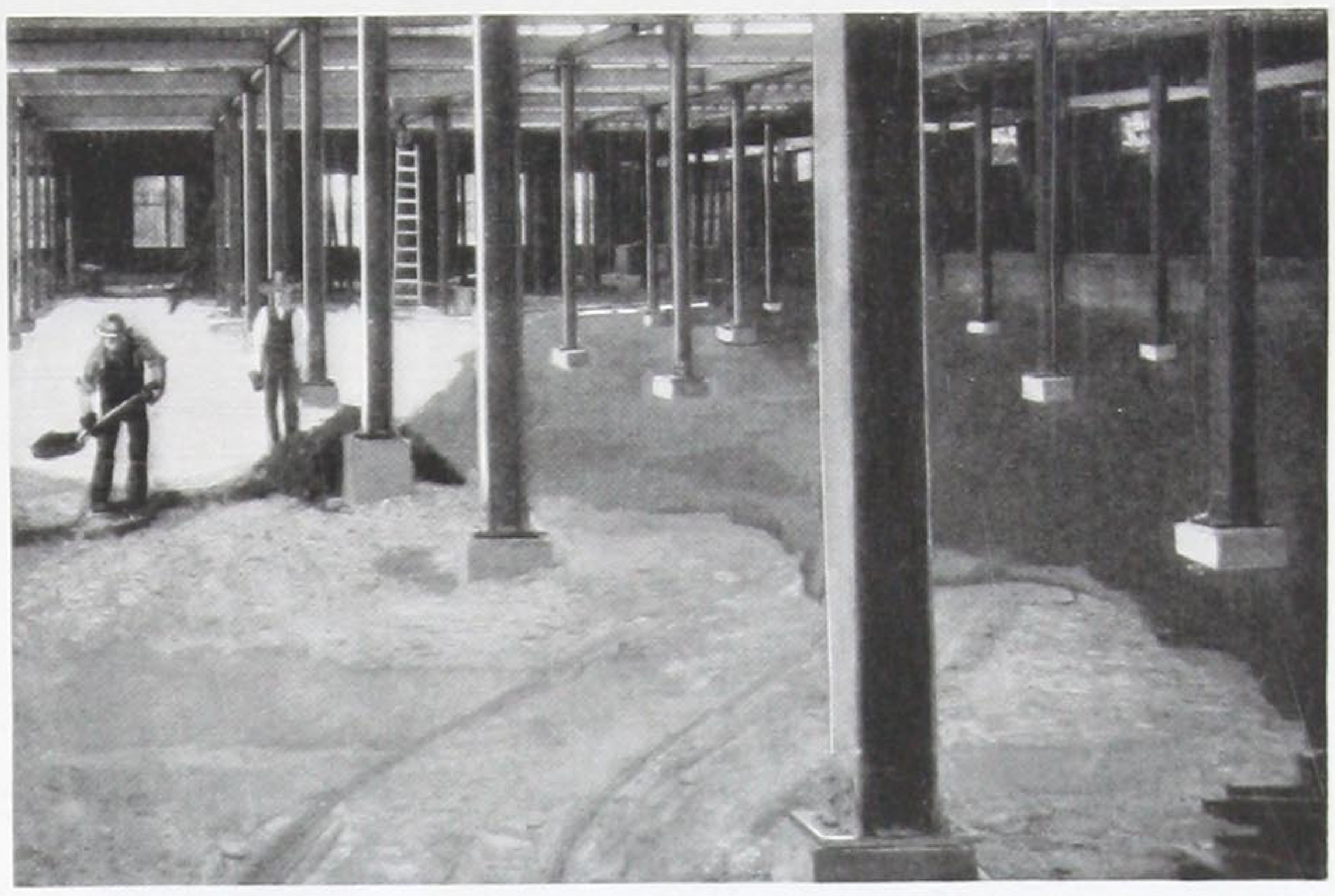
EXTRA strength is built into the concrete floors of Truscon Buildings by the use of Truscon reinforcing materials. The service required of floors in industrial plants is often extraordinarily rigorous. Continual impacts from the movement of materials, the shifting pressures of great weights of equipment and material, often heavy traffic along trucking lanes,—all these influences unite in straining, scuffing and chipping the floor.

Truscon Wire Mesh safeguards the concrete against the development of cracks and holes and provides against breaking, even if soft spots do occur in the subgrade.

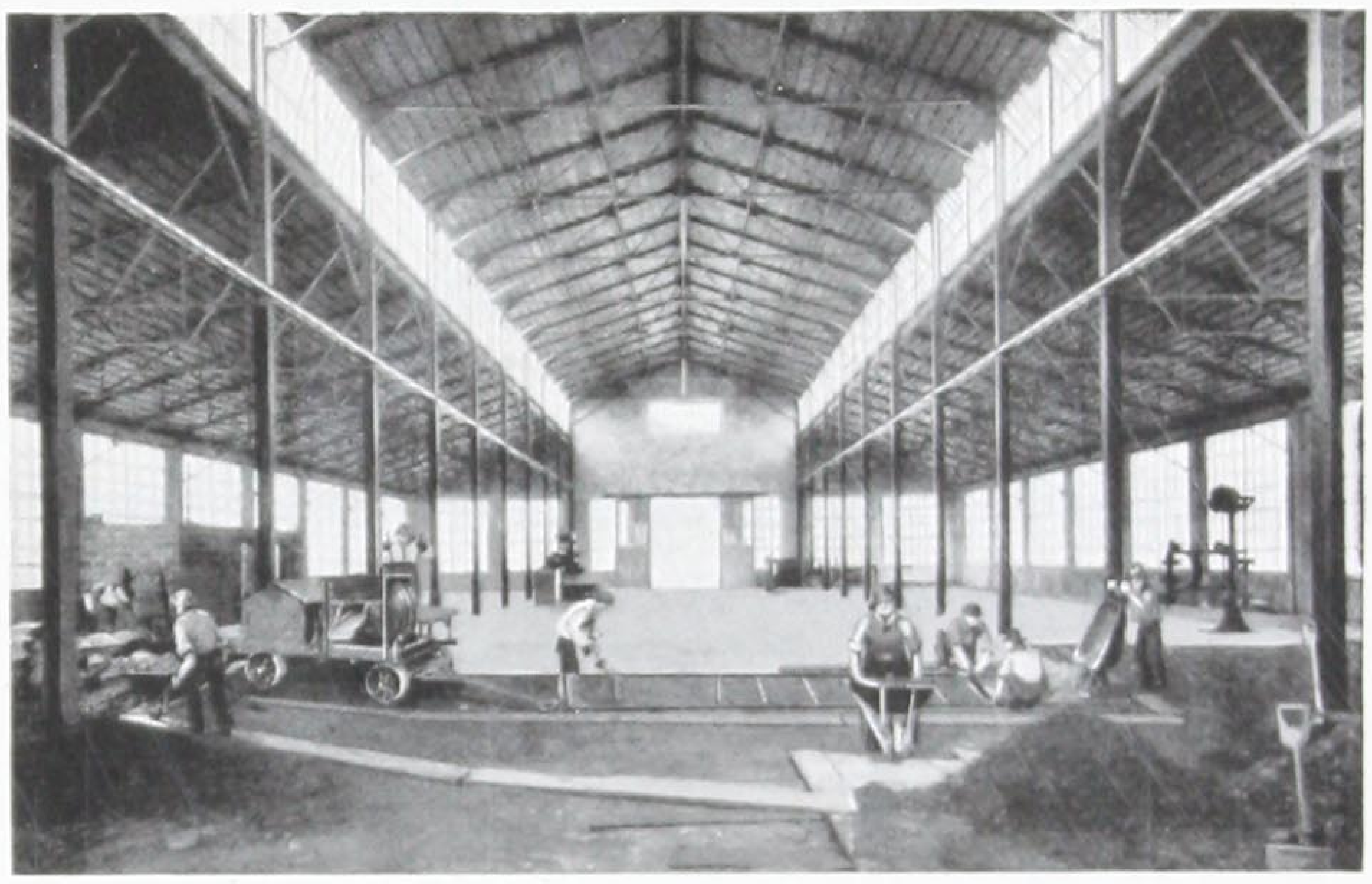
Truscon Floor Hardeners impregnate the surface against abrasions.

Truscon Waterproofing Paste protects foundations and floors against deterioration from excessive moisture.

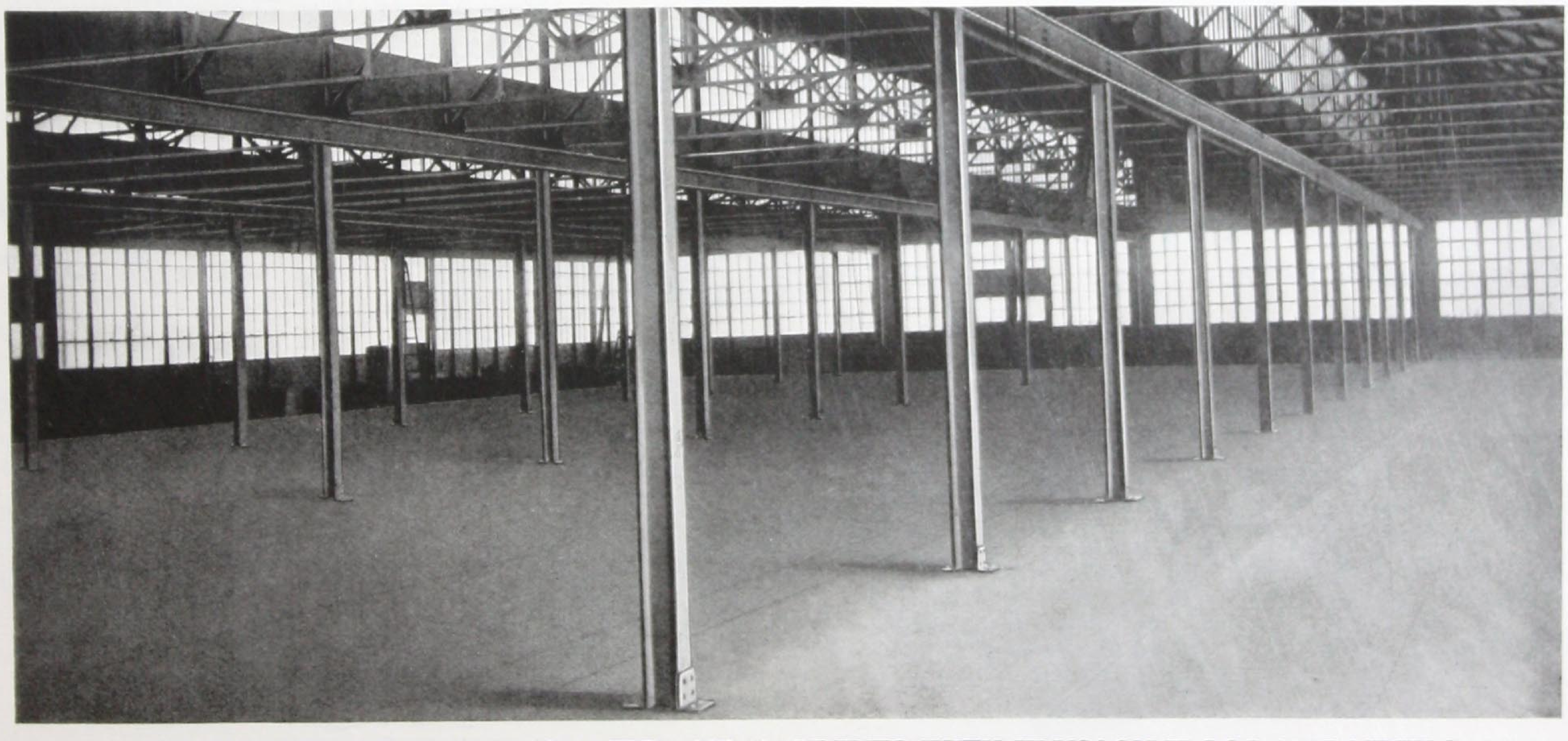
Supported Floor Constructions that will best meet individual conditions are designed and recommended by an experienced staff of Truscon Engineers.



PREPARING THE SUBGRADE FOR FLOOR



LAYING FLOOR OF CONCRETE AND WIRE MESH



CEMENT SURFACE IS IMPREGNATED AND HARDENED WITH TRUSCON FLOOR HARDENERS

Strong and Economical Supported Floor Systems

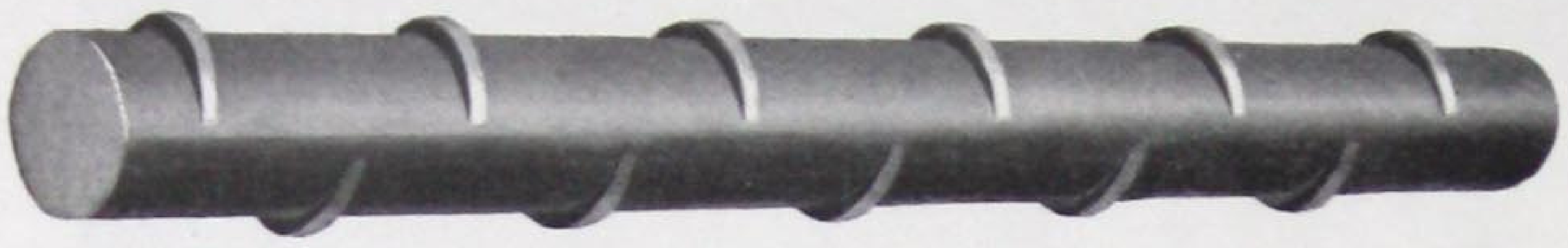


FIG. 1. TRUSCON ROUND RIB-BAR

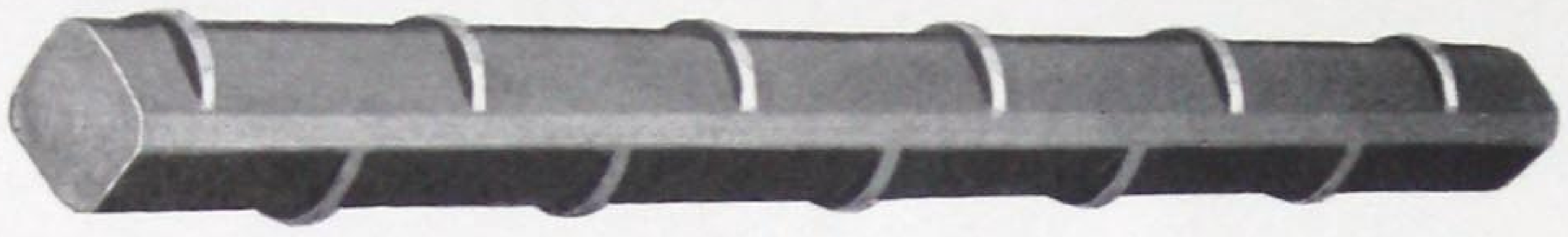


FIG. 2. TRUSCON SQUARE RIB-BAR

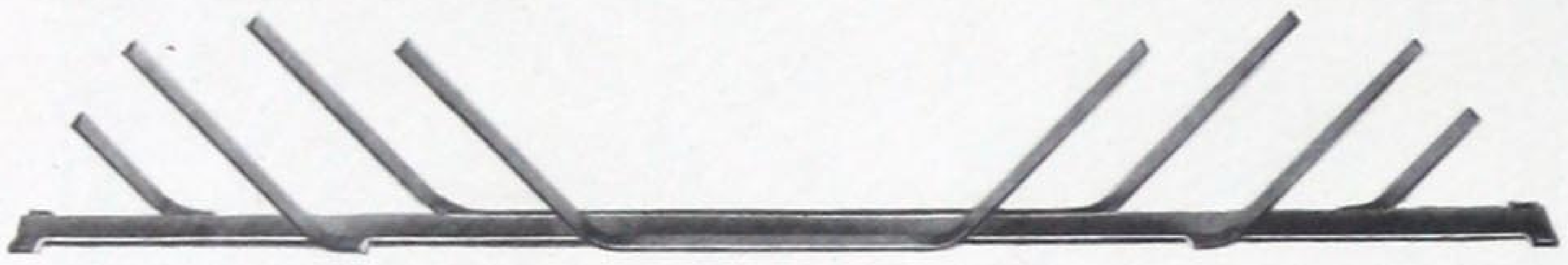


FIG. 3. KAHN TRUSSED BAR

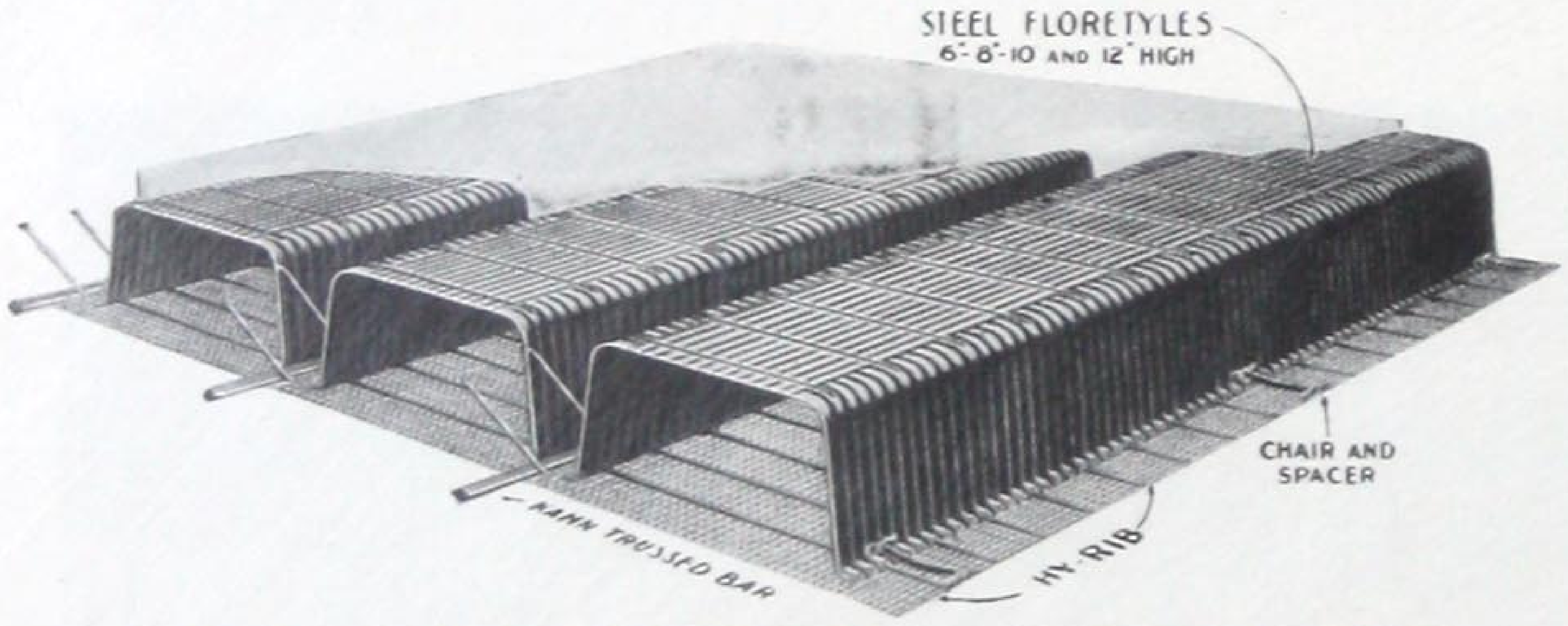


FIG. 4. RIBBED FLORETYLE CONSTRUCTION

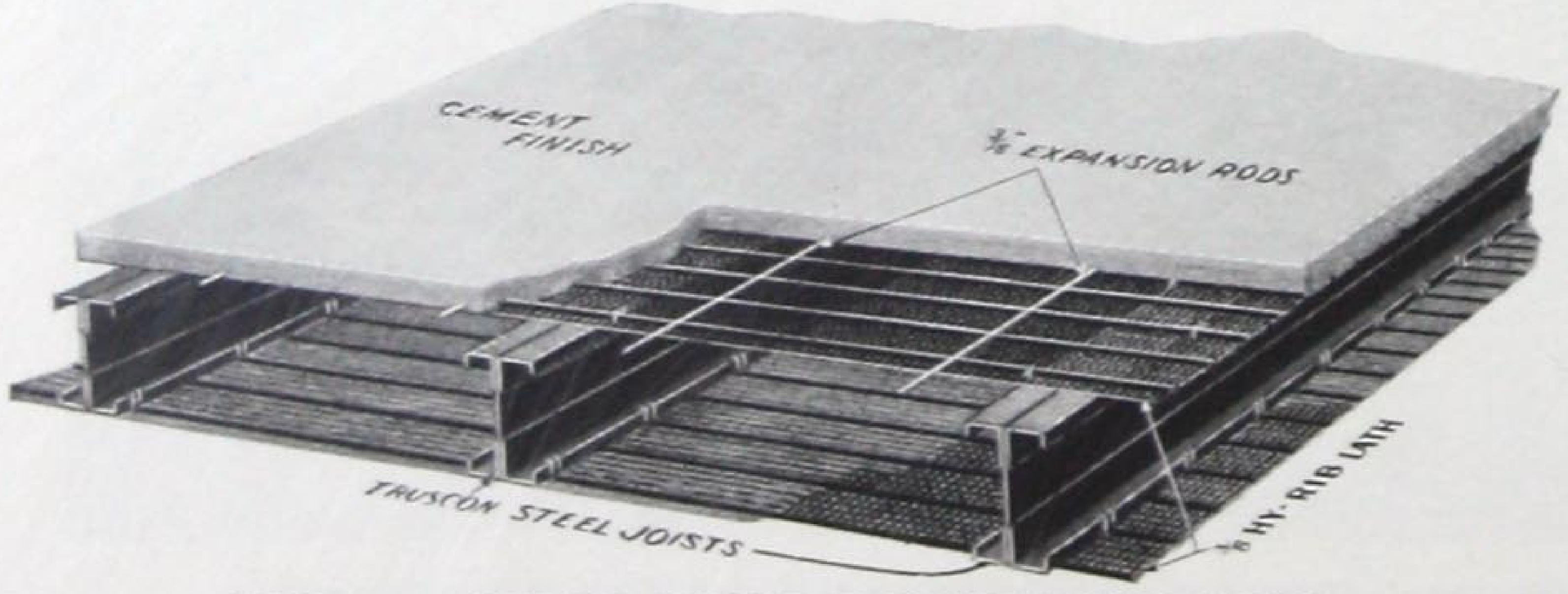


FIG. 5. STEEL JOIST CONSTRUCTION

WHERE supported floors are required Truscon supplies the most practical, economical type of permanent floor construction.

Truscon Rib-Bars (Fig. 1 and Fig. 2) for reinforced concrete are special rolled sections of highest grade new billet steel. A series of cross ribs provides a secure grip on the concrete.

Kahn Trussed Bars (Fig. 3) have a record of successful use in over fifty thousand structures in all parts of the world. Exceptional bond to the concrete results from their unit construction.

Truscon Floretyle Construction (Fig 4.) develops economy of concrete and great savings in weight. It consists of rows of specially formed steel floretyles separated by reinforced concrete joists and covered with a top slab of concrete.

Truscon Steel Joist Construction (Fig. 5) is an economical floor construction for supporting relatively light loads. It is fire-safe, light in weight and quickly built.

Truscon Edge Protectors (Fig. 6) for reinforcing and protecting exposed concrete corners, prevent chipping and cracking.

Truscon Wire Mesh (Fig. 7) doubles the life of the concrete floor. It binds concrete slabs in a solid granite-like unit that provides security against cracks and resists deterioration.

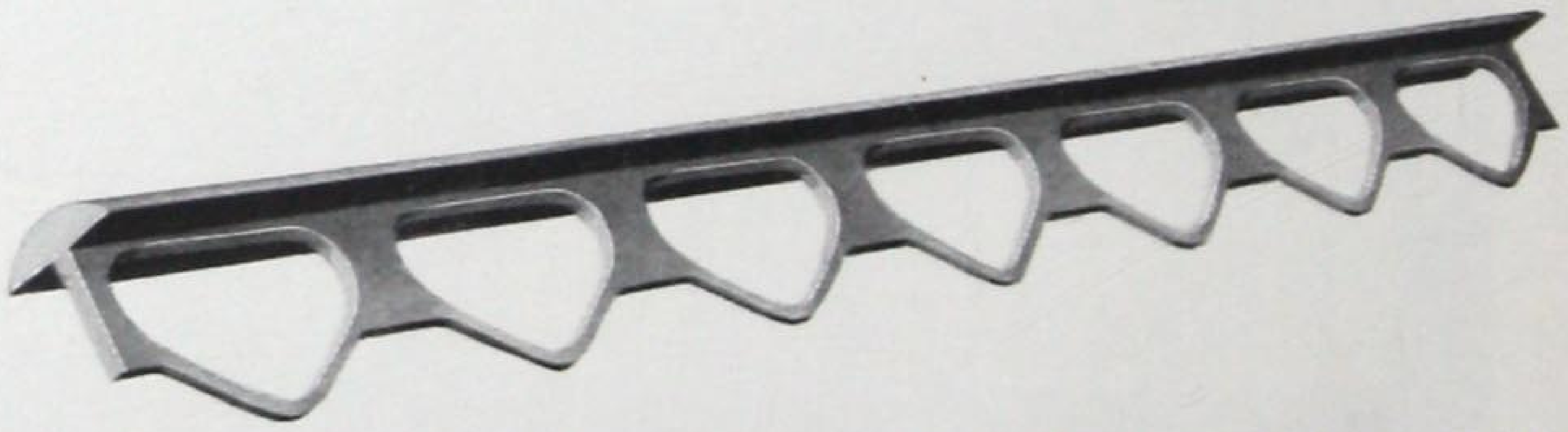


FIG. 6. EDGE PROTECTOR FOR CONCRETE CORNERS

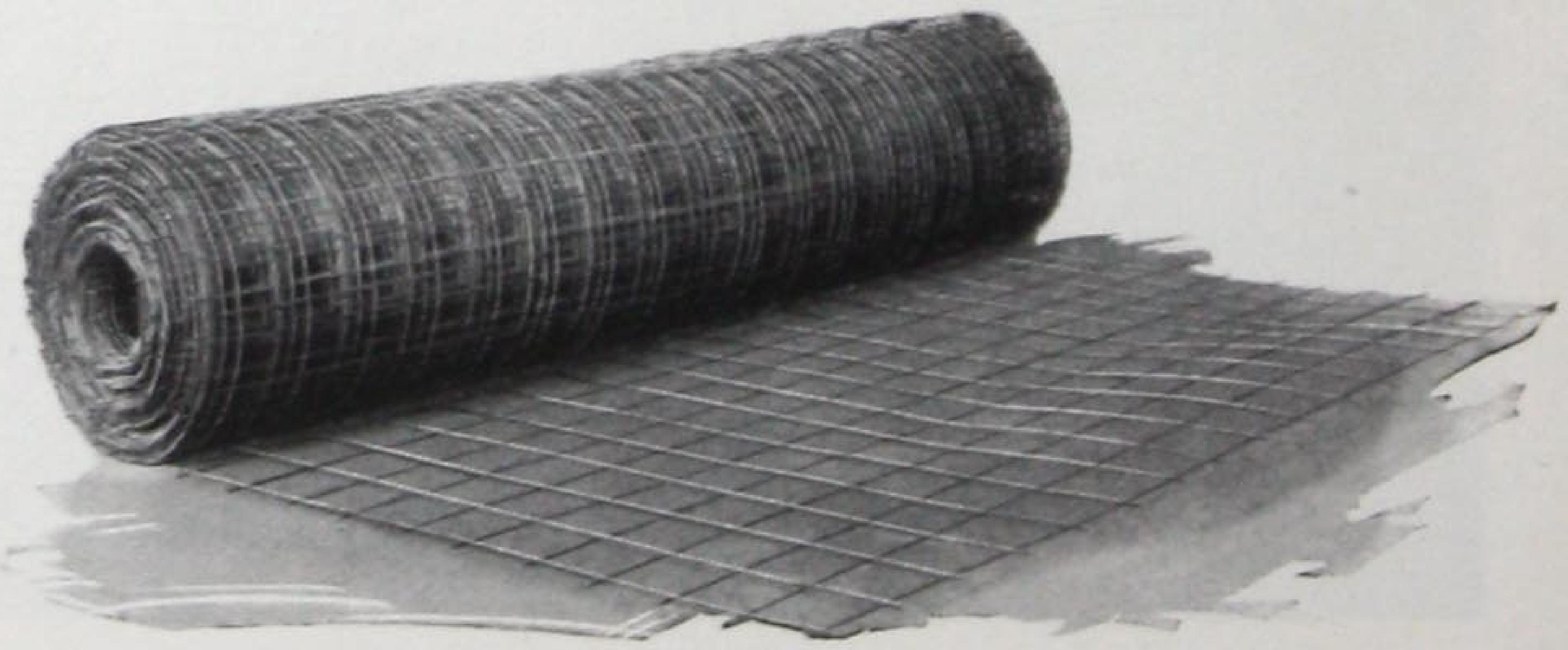


FIG. 7. WIRE MESH IN ROLLS OR FLAT SHEETS

Mar. 1145

Standardized Trusses Provide Rigid Roof Support

NOWHERE throughout the whole Truscon line are the benefits of standardization more notable than in the production of Truscon Trusses. They are the practical execution, on a volume production basis, of the most modern engineering designs. Correct designing provides proper strength for supporting superimposed loads as well as the weight of the roof.

Truscon truss engineering is precise. The trusses are designed and detailed to develop the required strength and rigidity without excess weight—to simplify shop labor—and to utilize interchangeable structural posts and gusset plates. The well known principles of simplification have been so intensively applied to the study of truss design that these building units are marketed at a very low price.

Truscon standards are established to secure the economies of volume production for those sizes and types of building units which adapt themselves best to the greatest number of uses. Wherever feasible these standards should be adhered to for the sake of economy and quick delivery.

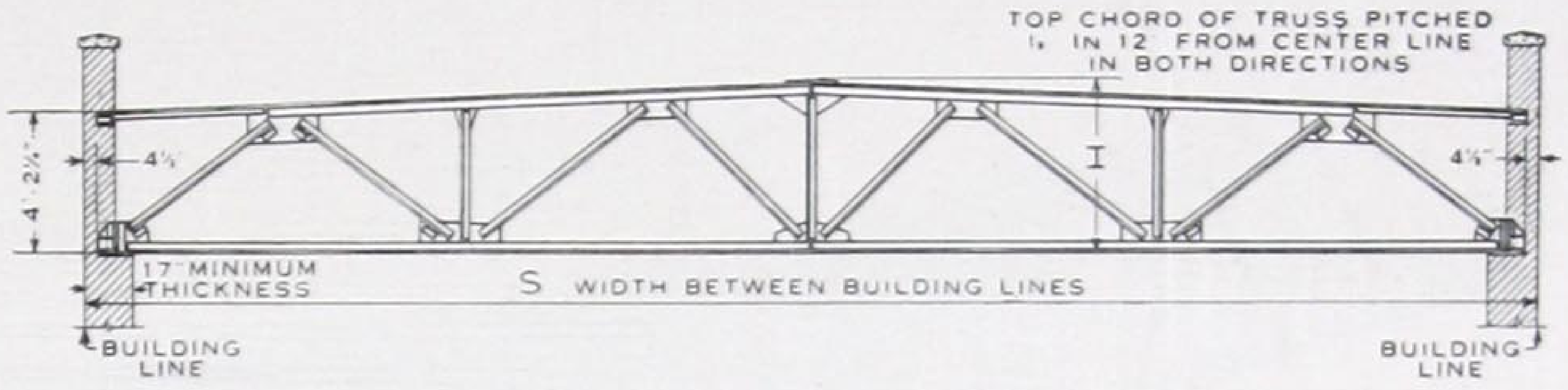

TOP CHORD OF TRUSS PITCHED ¼ IN 12 FROM CENTER LINE IN BOTH DIRECTIONS
4'-2½"
4¼"
4¼"
I
17" MINIMUM THICKNESS
S WIDTH BETWEEN BUILDING LINES
BUILDING LINE
BUILDING LINE

FIG. 5. CENTER SPAN TRUSS

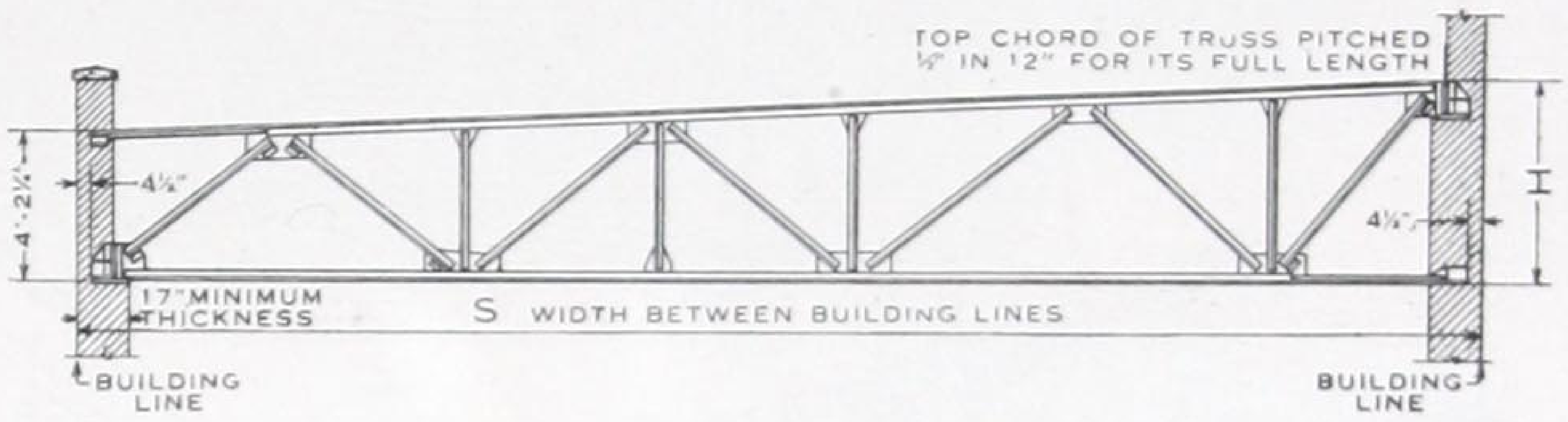

TOP CHORD OF TRUSS PITCHED ½" IN 12" FOR ITS FULL LENGTH
4'-2½"
4¼"
4½"
H
17" MINIMUM THICKNESS
S WIDTH BETWEEN BUILDING LINES
BUILDING LINE
BUILDING LINE

FIG. 6. SIDE SPAN TRUSS

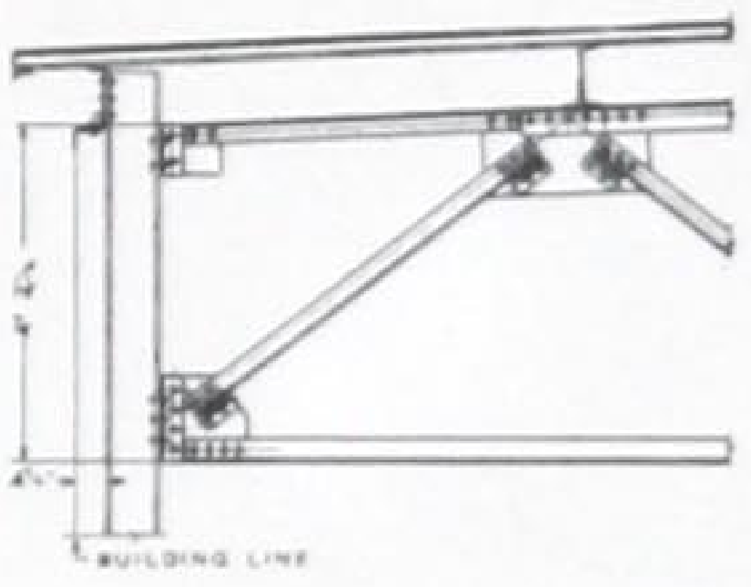


FIG. 7.
TRUSS SUPPORTED ON STRUCTURAL STEEL COLUMNS

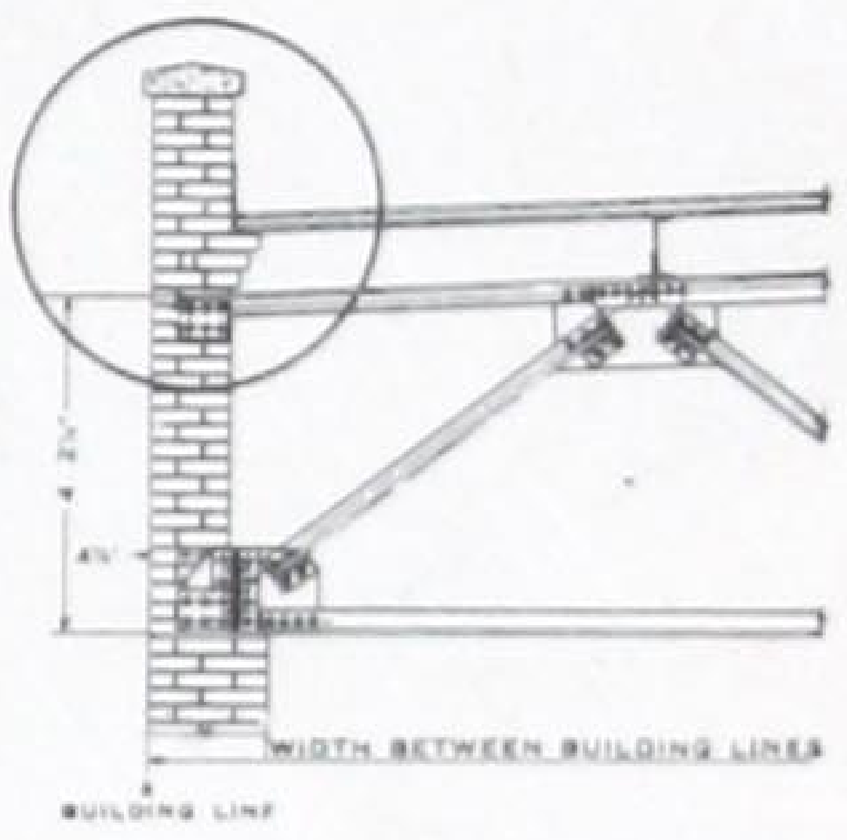


FIG. 8.
DETAIL OF PARAPET WALL

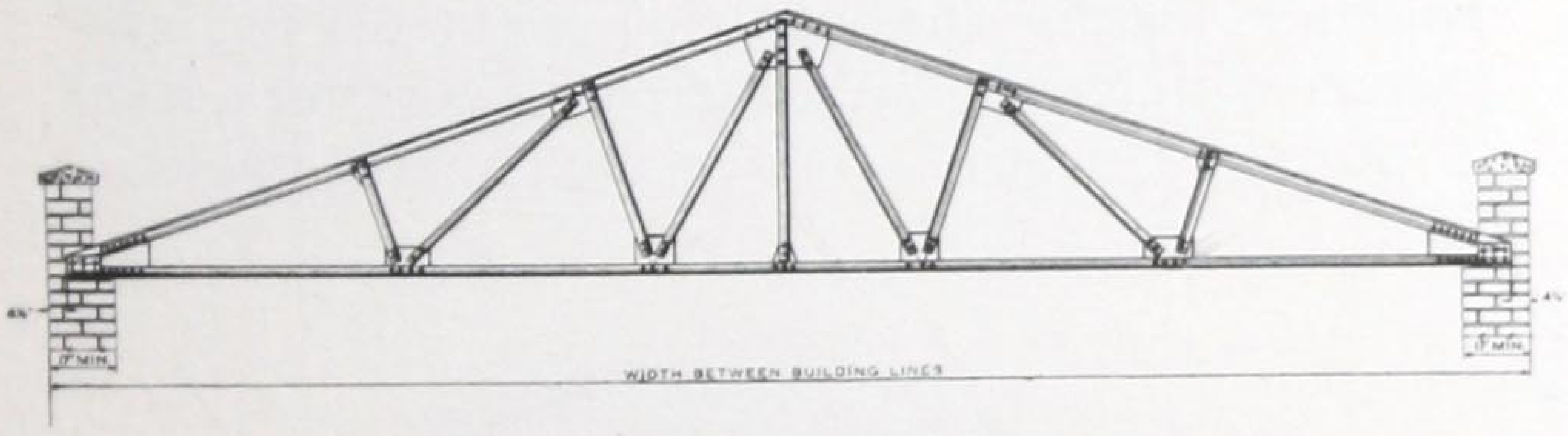


FIG. 1. CLEAR SPAN STYLE "A" TRUSS

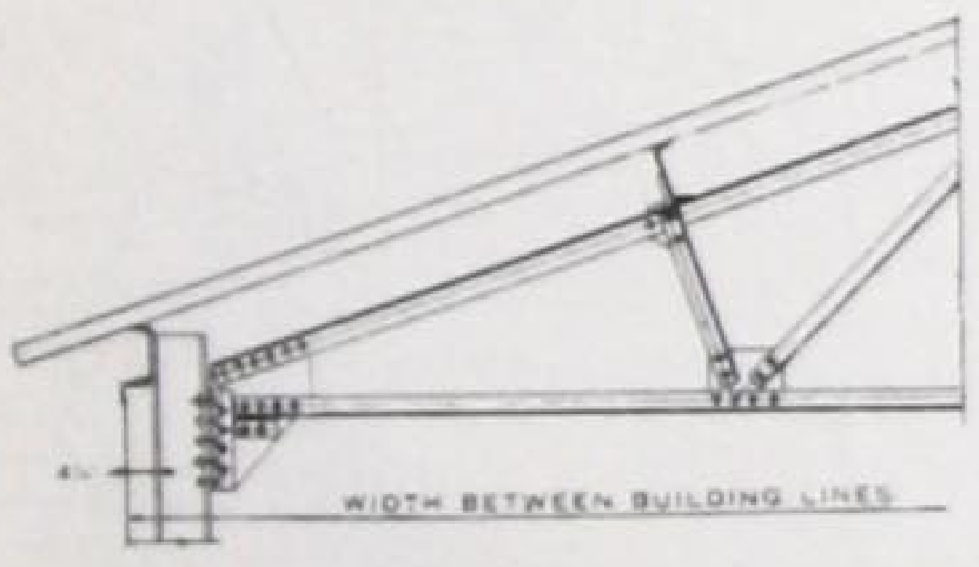


FIG. 2.
STYLE "A" TRUSS
SUPPORTED ON STRUCTURAL STEEL

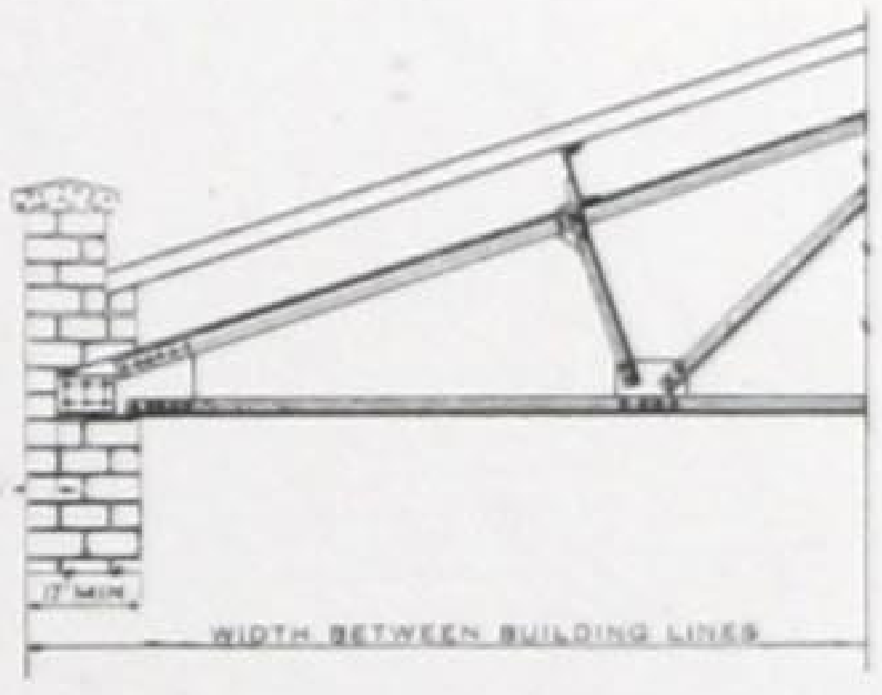


FIG. 3.
STYLE "A" TRUSS
SUPPORTED ON MASONRY WALLS WITH PARAPET

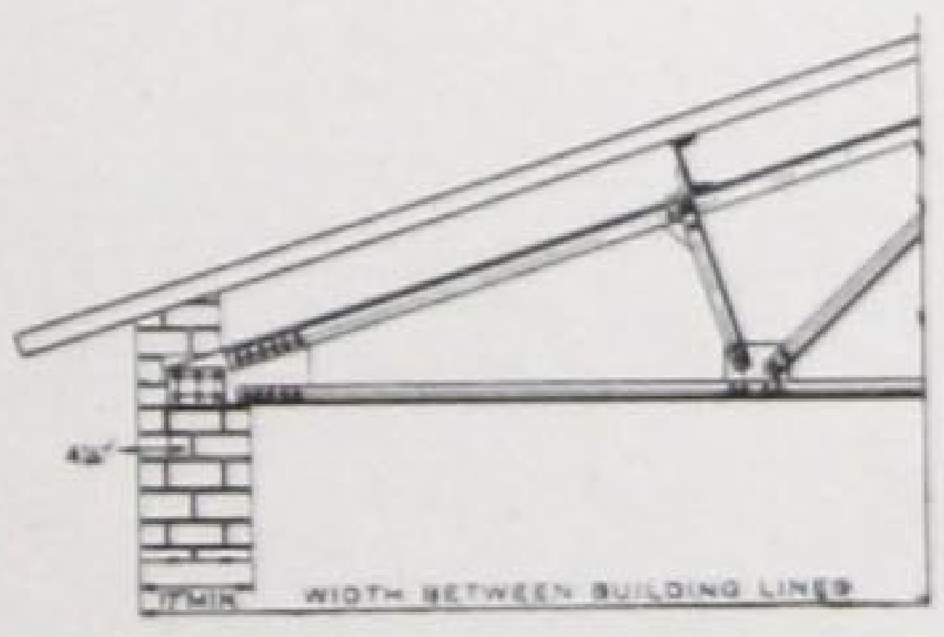


FIG. 4.
STYLE "A" TRUSS
ON MASONRY WALLS WITH PROJECTING EAVES

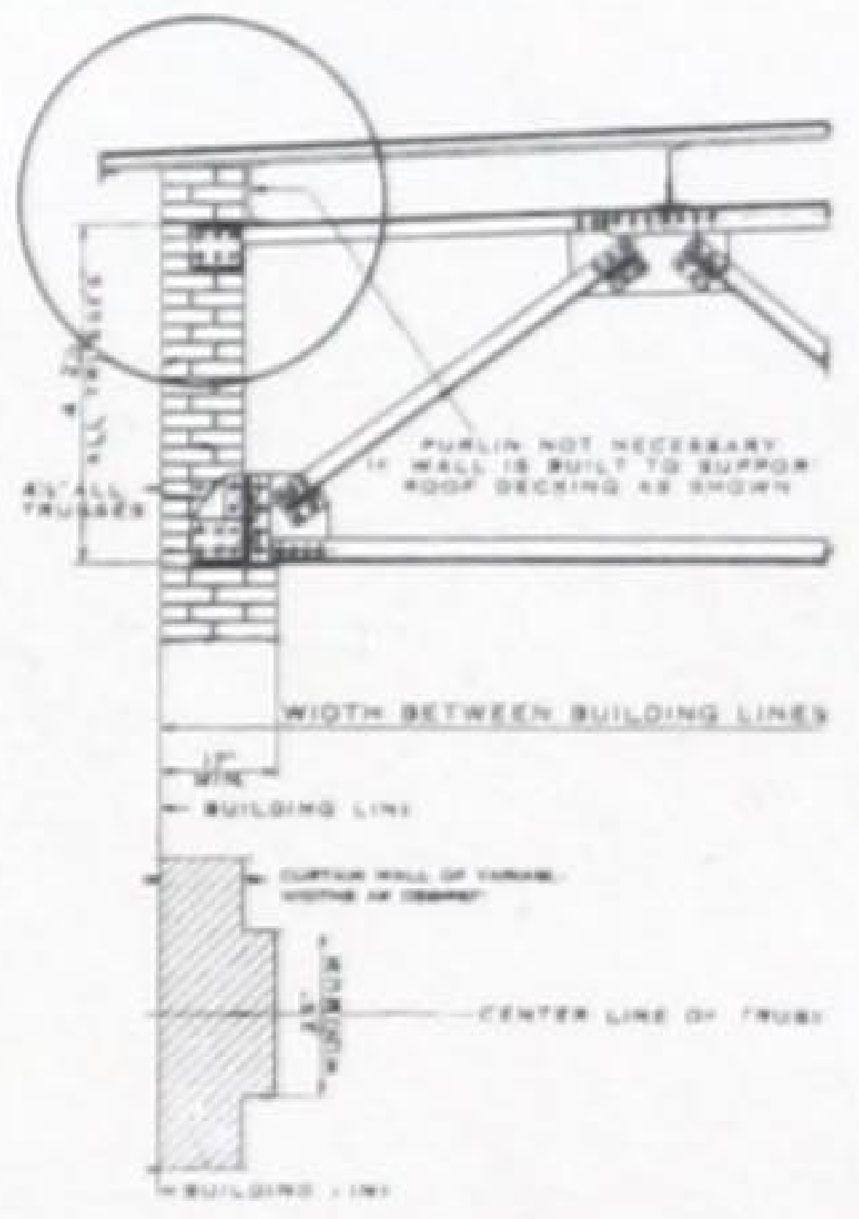

PURLIN NOT NECESSARY IF WALL IS BUILT TO SUPPORT ROOF DECKING AS SHOWN
WIDTH BETWEEN BUILDING LINES
BUILDING LINE
CENTER LINE OF TRUSS
BUILDING LINE

FIG. 9.
DETAIL OF WALLS AND PILASTERS REQUIRED
(IN CIRCLE) DETAIL OF PROJECTING EAVES
(CENTER) SECTIONAL VIEW THROUGH BEARING OF TRUSS
(AT BOTTOM) PLAN VIEW OF BEARING FOR TRUSS

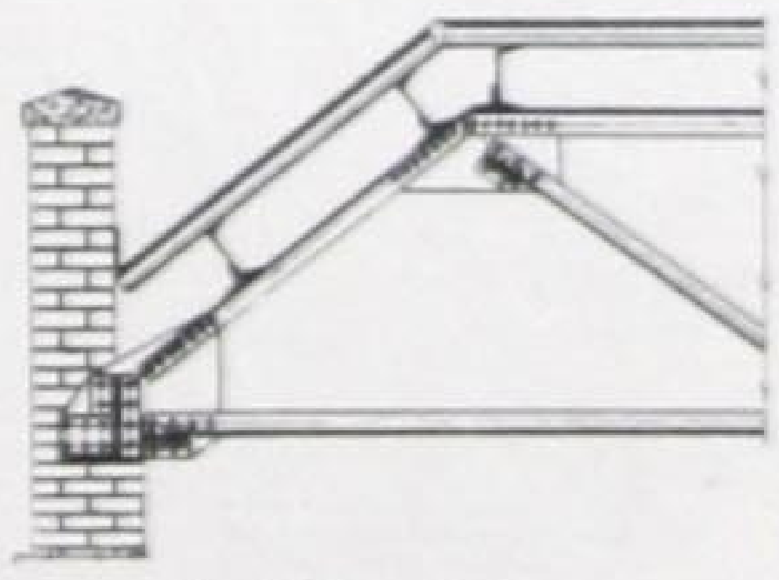


FIG. 10.
SLOPING END TRUSS
WITH PARAPET WALL

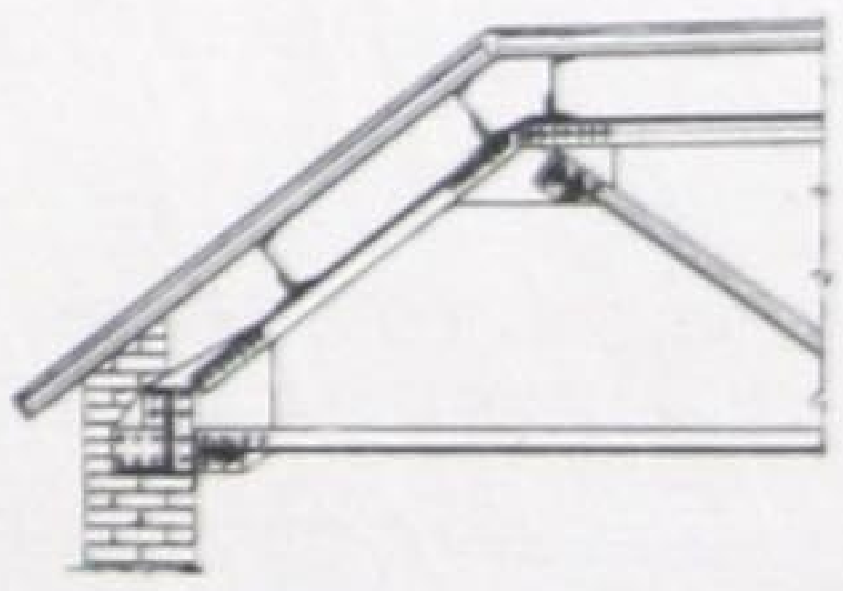


FIG. 11.
SLOPING END TRUSS
WITH PROJECTING EAVES

Truscon Interlocking Plate Type Roofs

For Pitched Roofs, Series "A" Truscon Buildings

(PAGE 14)

FOR pitched roofs, the Truscon Interlocking Type Roof is strong and rigid, watertight and quickly laid. This roof is safe and rust-resisting, for it is built of interlocking plates of 18 gauge copper steel. These plates are fabricated sections formed and reinforced to support specified roof loads. End seams are covered with weathertight strips.

The Truscon Interlocking Type Roof is securely fastened to the trusses by means of a special clip from beneath. There are no holes punched through the roof-sheets, so there are no bolt or rivet heads to hold moisture and encourage early decay.

The Truscon Interlocking Roof is strong but without excessive weight. In fact, the light weight construction permits great savings in the cost of supporting members.

Its resistance to corrosion is integral instead of being the result of a surface treatment with another metal that causes electrolysis, the cancer which eats and destroys wherever a hole is punched or the surface treatment broken.

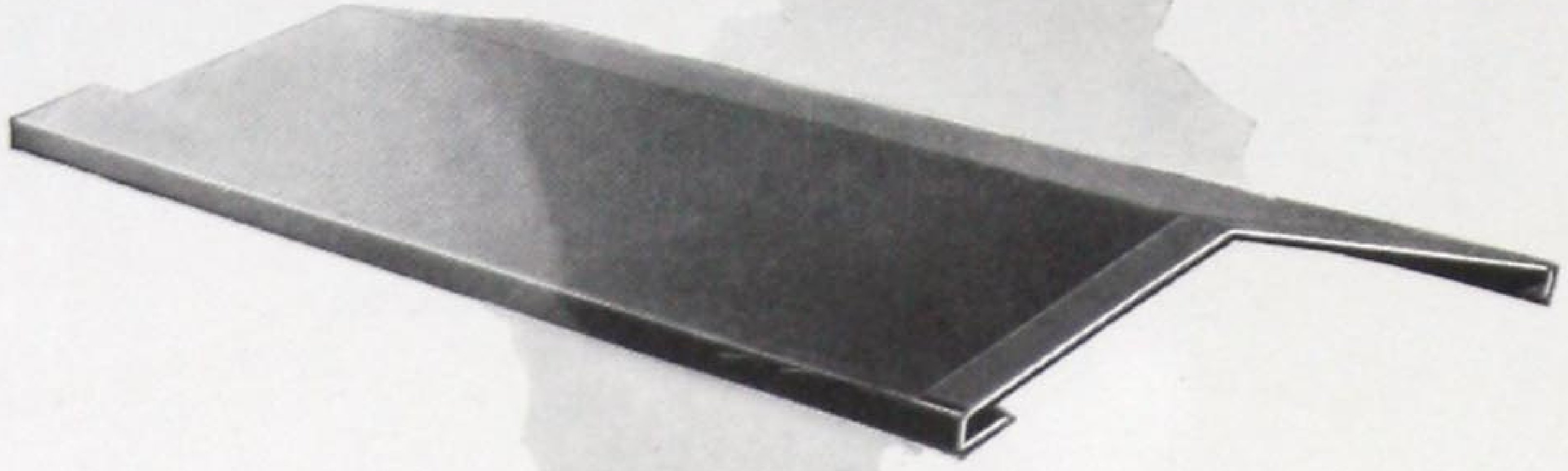


FIG. 1.

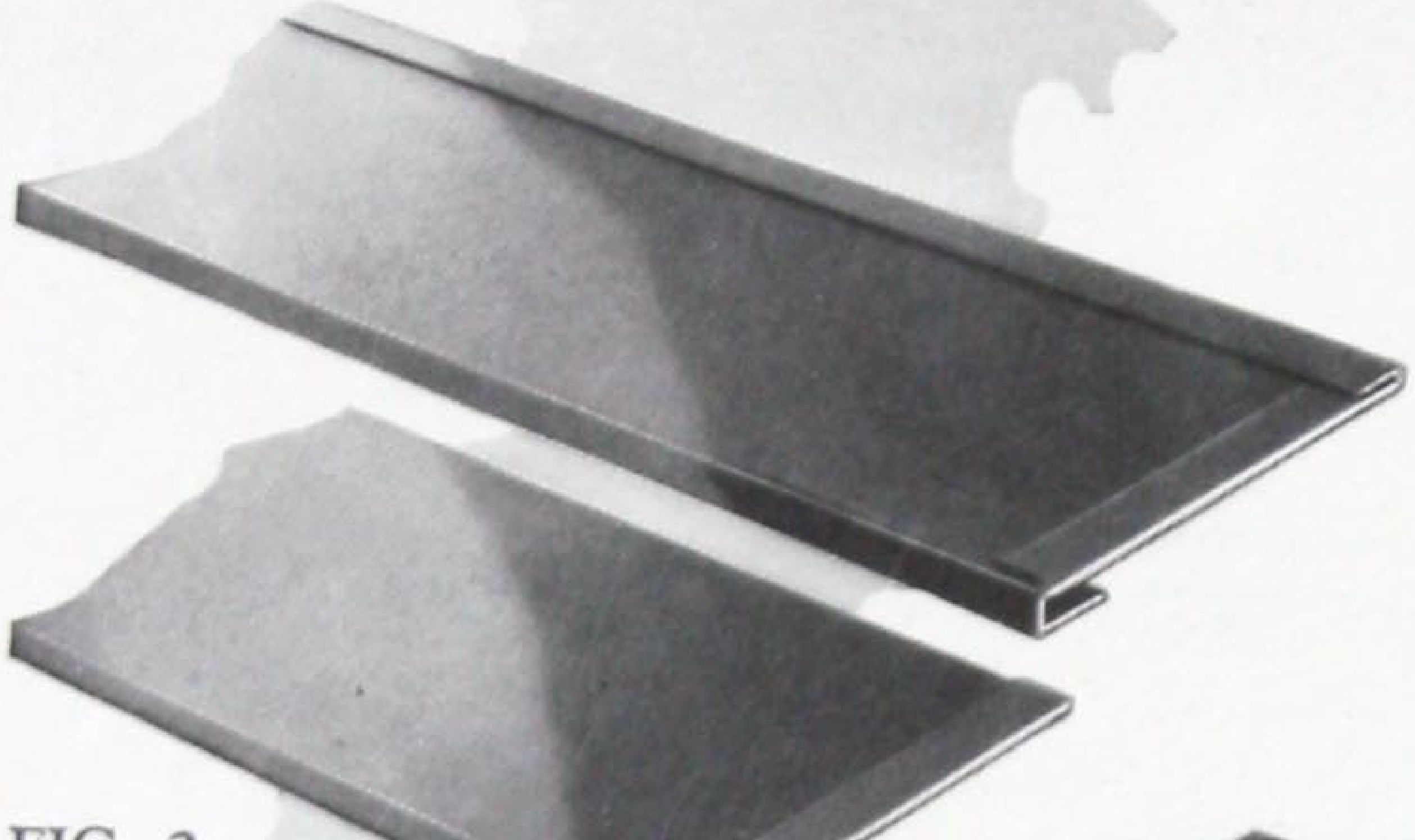


FIG. 2.

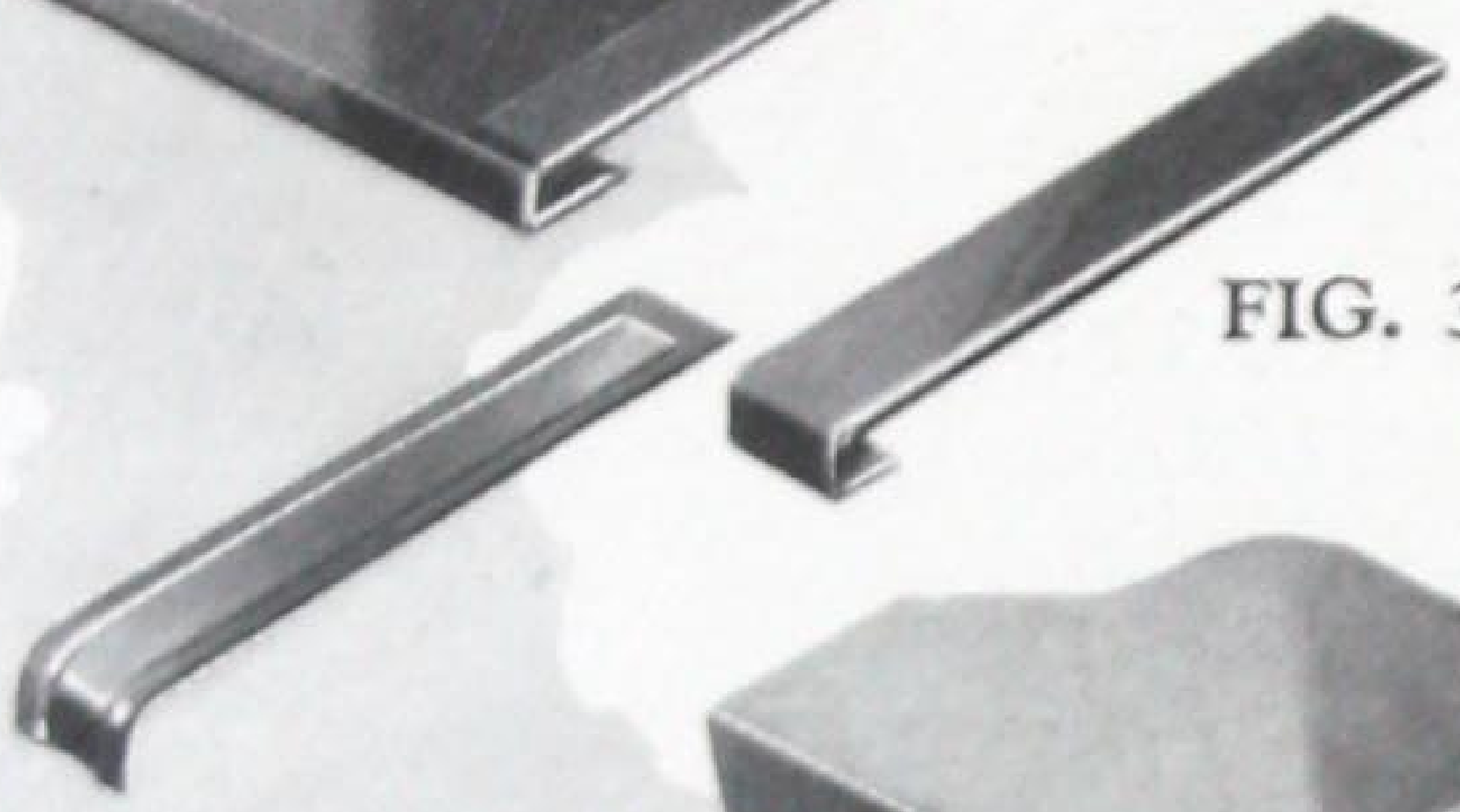


FIG. 3.

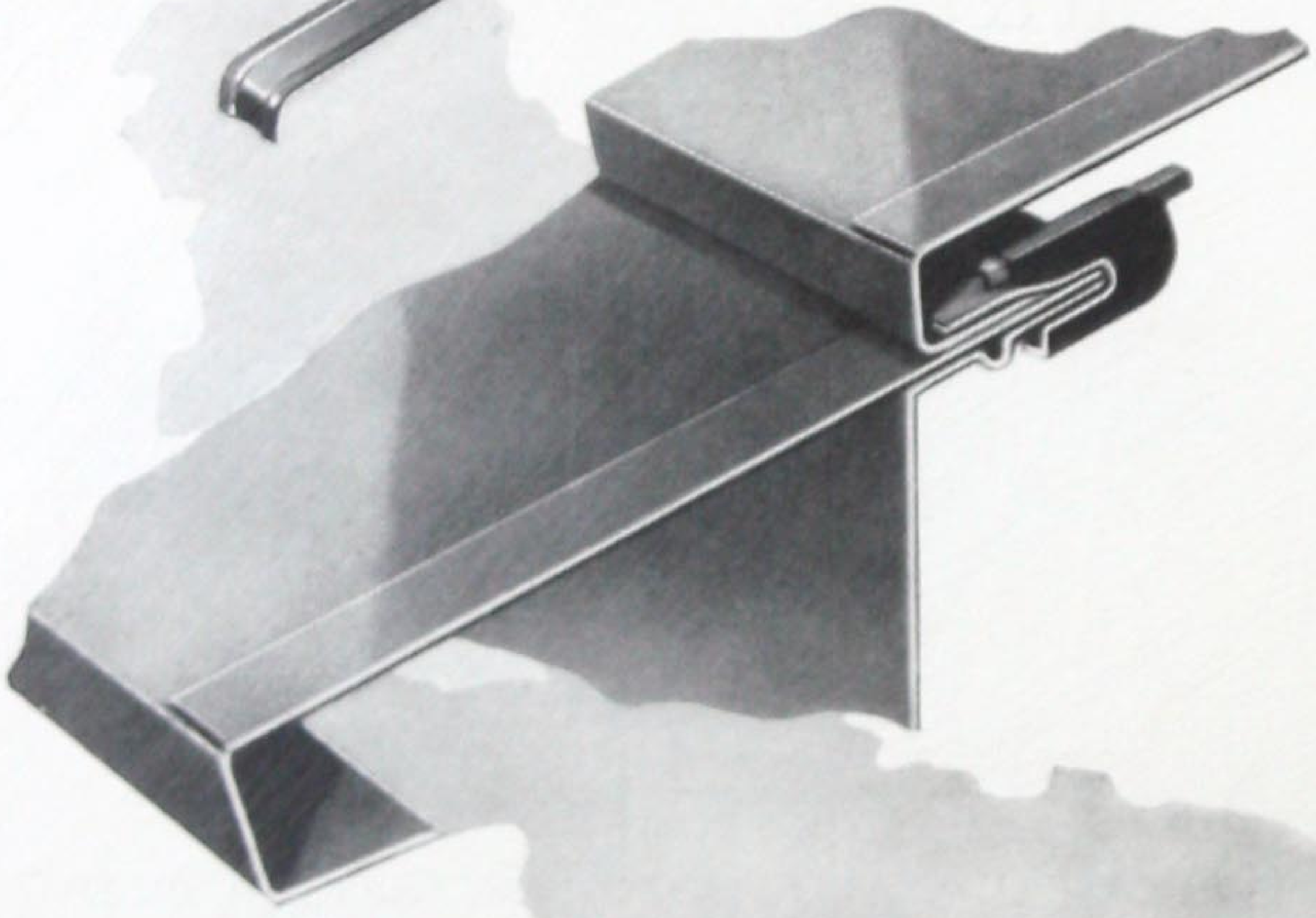


FIG. 4.

FIG. 1. RIDGE PLATE

FIG. 2. EAVE PLATE AND INTERMEDIATE PLATE

FIG. 3. END SEAM STRIP

FIG. 4. WEATHERTIGHT JOINT AT EAVES

FIG. 5. INTERLOCKING ROOF IS QUICKLY LAID

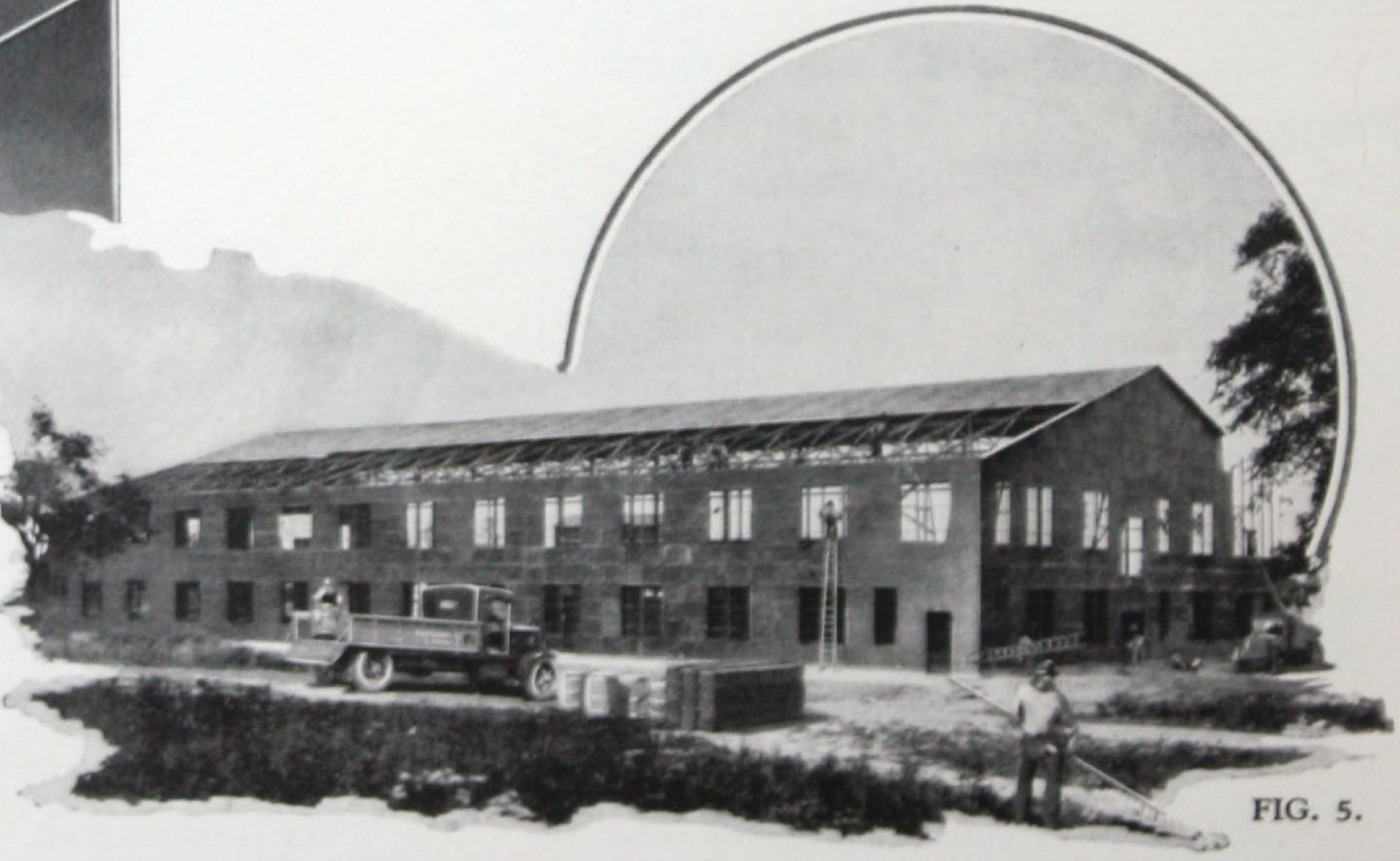


FIG. 5.

"Steeldeck" Roofs with Built-Up Roofing

For Pitched and Flat Roofs, Series "A" and "B" Buildings

(PAGE 15)

TRUSCON "Steeldeck" is a roof-decking of 18 gauge alloy copper steel plates that is used for flat or pitched roofs. These plates are fabricated sections formed and reinforced to support specified roof loads.

Although designed for a live load of 40 pounds per square foot, "Steeldeck" has been tested to 160 pounds per square foot without failure.

When used on industrial buildings where the roof also serves as a ceiling, "Steeldeck" presents a trim appearance. Its painted surface is an effective light reflector.

Not only is the "Steeldeck" Roof simple in design but also, it is so precisely constructed as to preclude all delay in erecting a strong and rigid roof. The "Steeldeck" Roof is laid with great speed and assured security.

FIG. 1. STIFFENING ANGLE LOCKS DECKPLATES TO SUB-PURLIN

FIG. 2. "STEELDECK" AND RETURN PLATE COMBINE FOR PERFECT WEATHERING

FIG. 3. MANNER OF LAYING 2-PLY BUILT-UP ASBESTOS ROOFING ON "STEELDECK"

FIG. 4. "STEELDECK" ROOFS PRESENT A PLEASING INTERIOR APPEARANCE

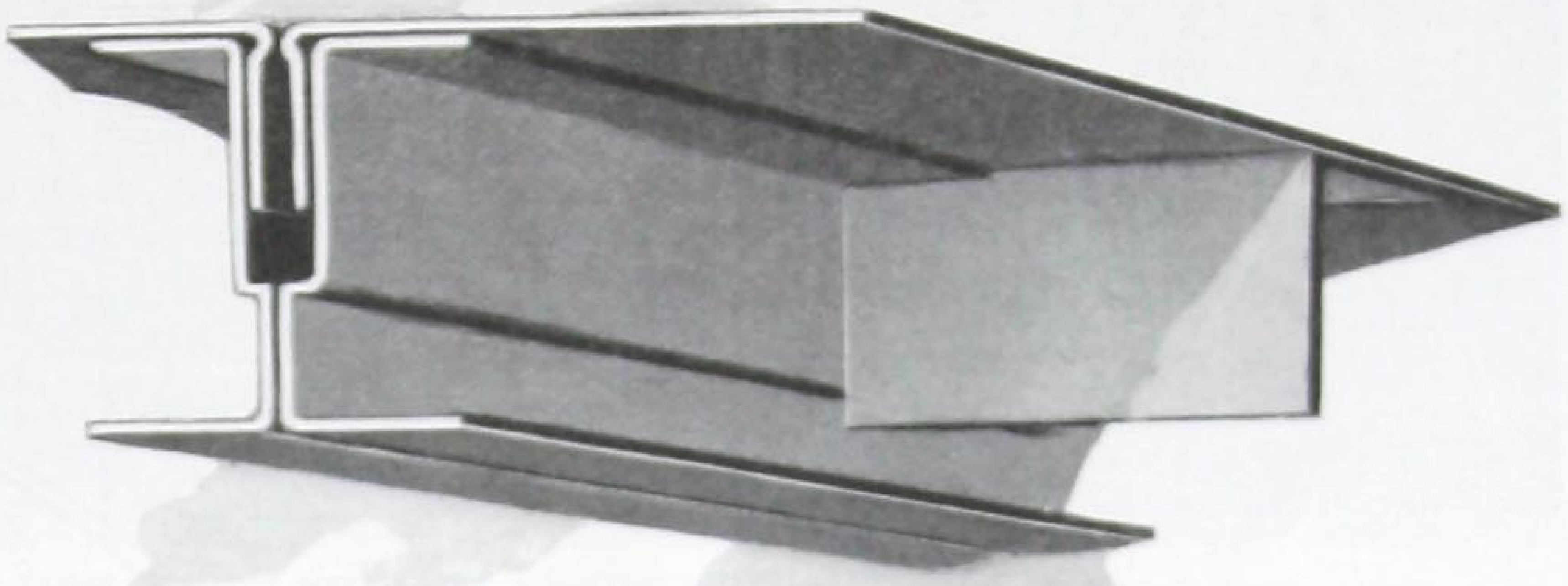


FIG. 1.

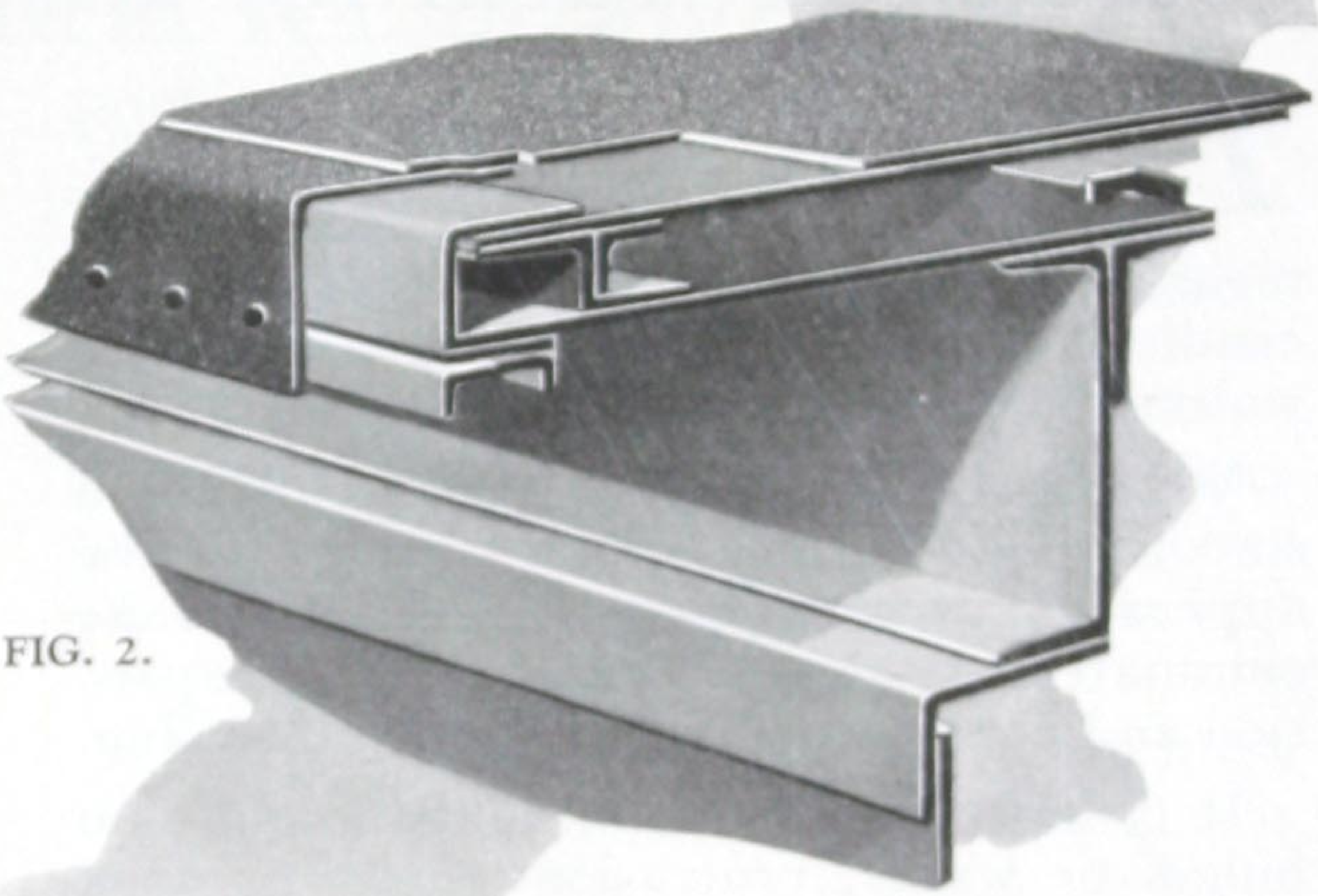


FIG. 2.

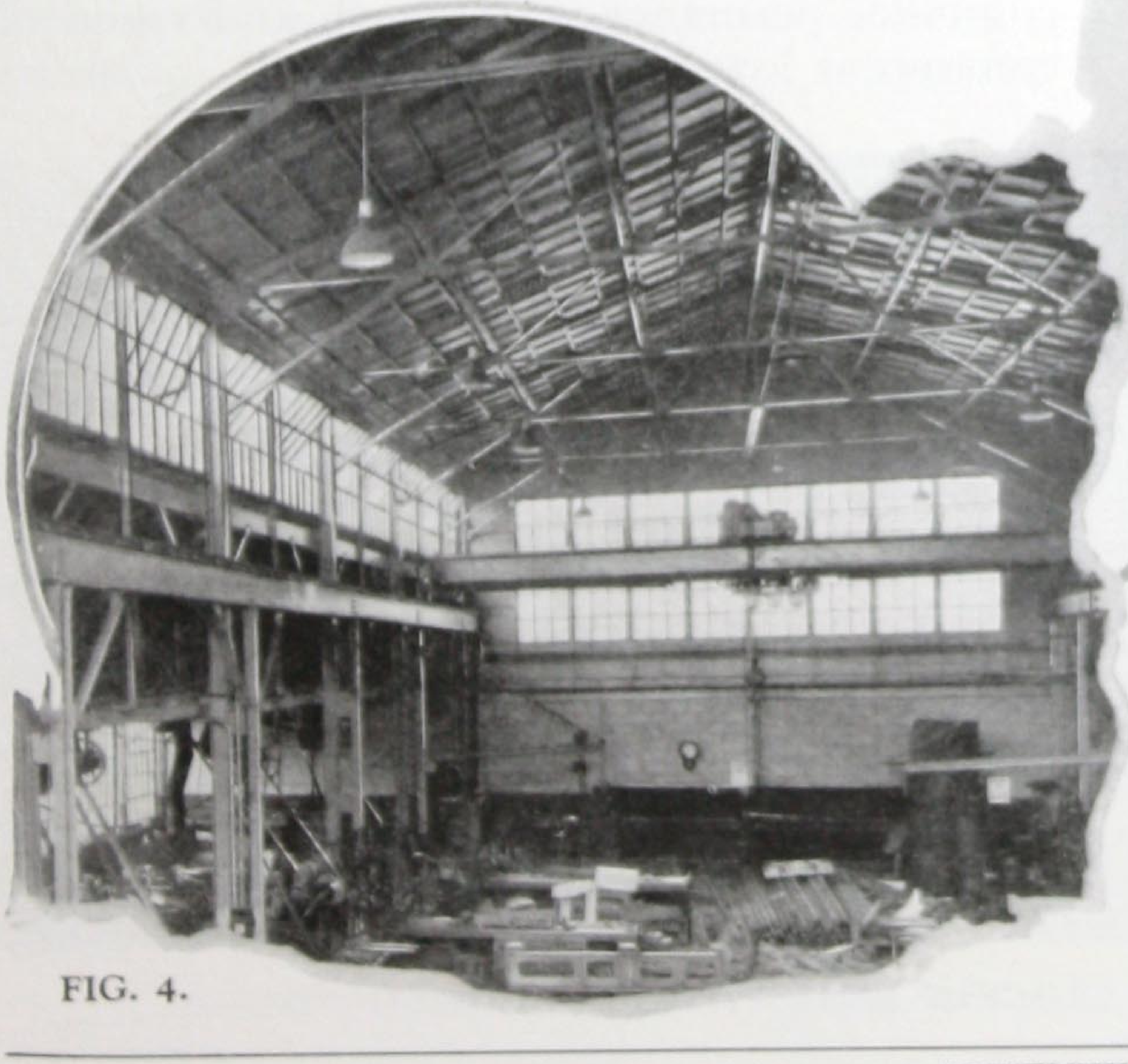


FIG. 4.

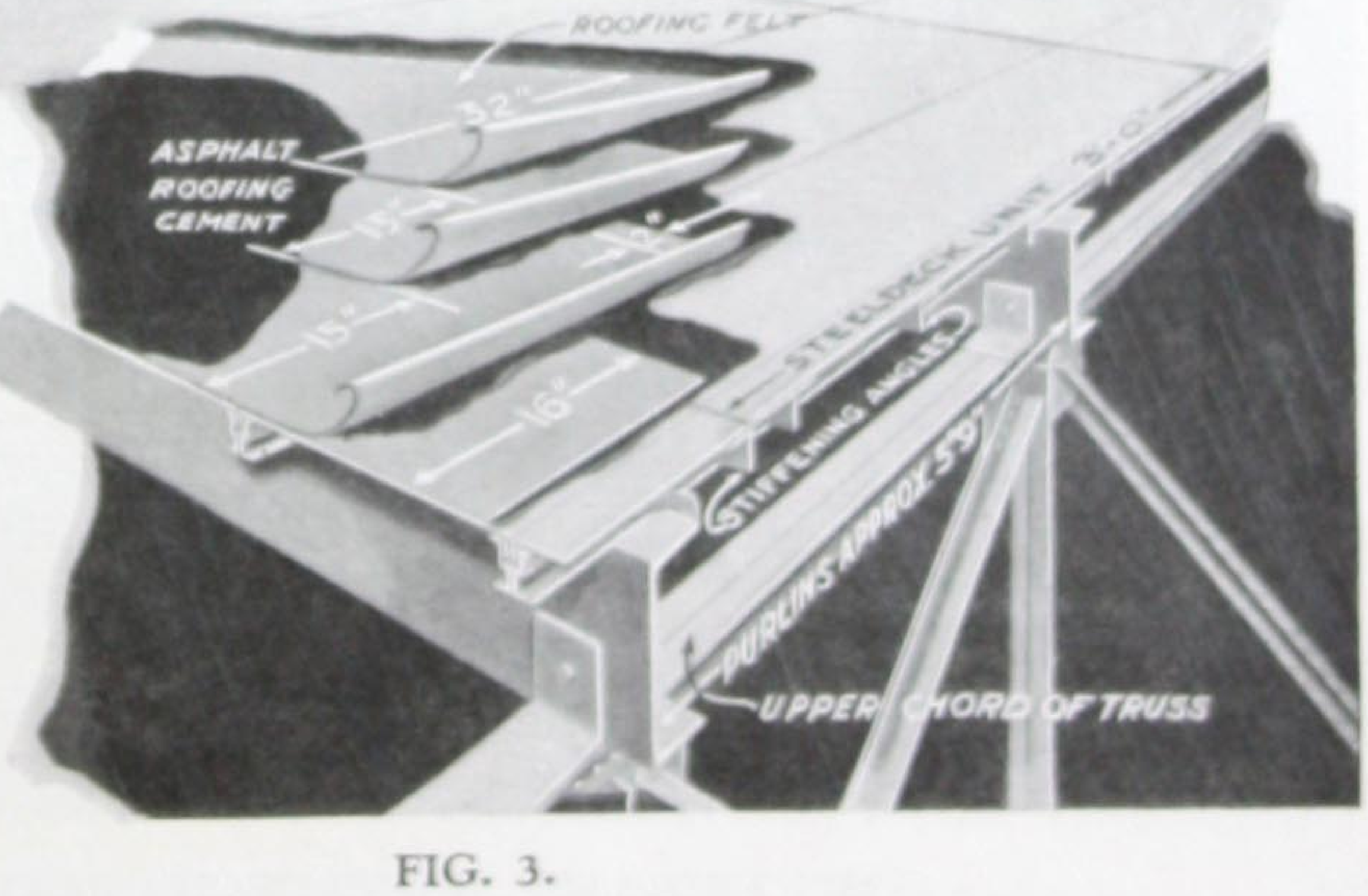


FIG. 3.

BUILT-UP ROOFING IS APPLIED WHILE OTHER AREAS ARE BEING LAID

"Steeldeck" Ideal for Insulating & Waterproofing

TRUSCON "Steeldeck" is unlike most types of roof decks. The built-up waterproofing can be applied immediately, regardless of temperature or other weather conditions, without absorption of moisture or waiting for evaporation to take place.

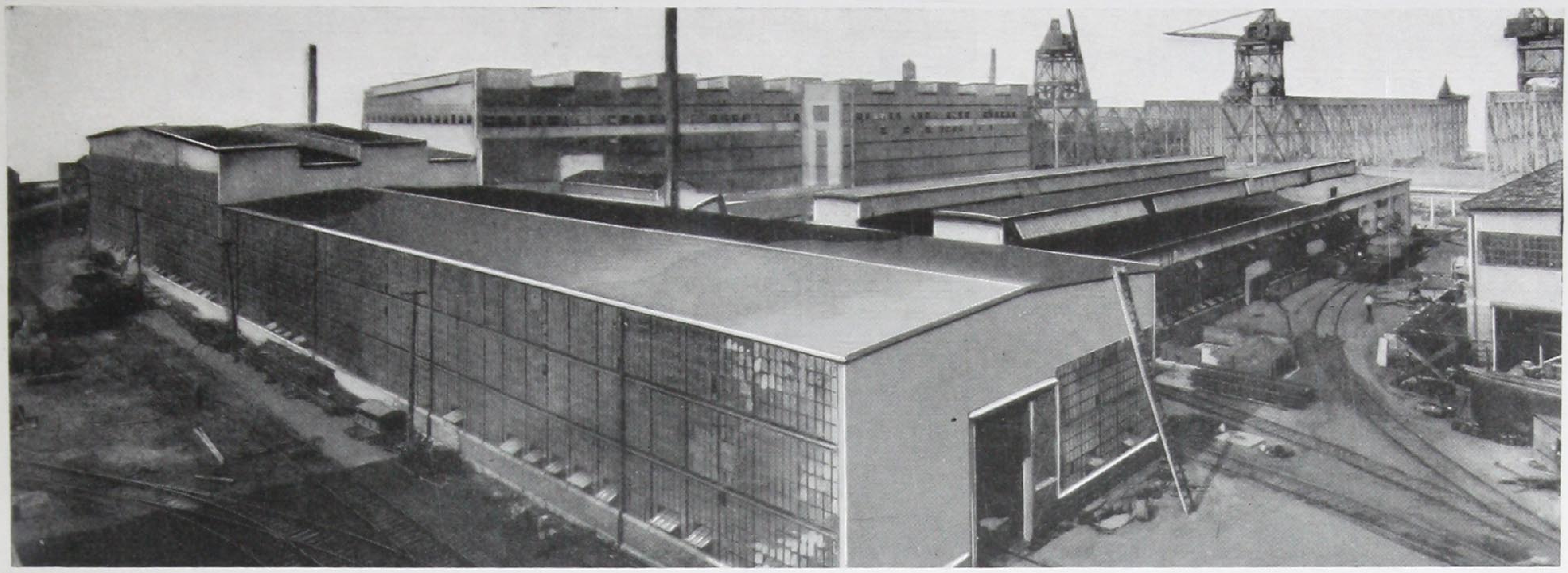
Waterproofing—This roof provides a smooth, solid surface which is ideal for the application of waterproofing material. Its use eliminates any possible damage, from expansion and contraction, to the built-up roofing.

It cannot warp or shrink and there are no bulges or waves, protrusions, holes or open spaces to interfere with the proper construction of built-up roofing or to cause breaks as the workmen walk over it. There are no nails, bolts or rivets to work loose and punch up through the waterproofing.

Insulating—By applying insulating materials before the waterproof membrane is laid, the Truscon "Steeldeck" roof can be built up to any desired degree of insulation. This insulating material conserves heat and eliminates condensation.

Truscon "Steeldeck" is the only base upon which insulation and built-up roofing can be constructed with positive assurance of safety. It is the best non-combustible roof deck which combines permanence, strength and speed of erection at low cost.

THIS FIRE-SAFE "STEELDECK" ROOF QUICKLY LAID WITHOUT STAGING



FIRESAFE "STEELDECK" ROOFS FOR MANY TYPES OF BUILDINGS

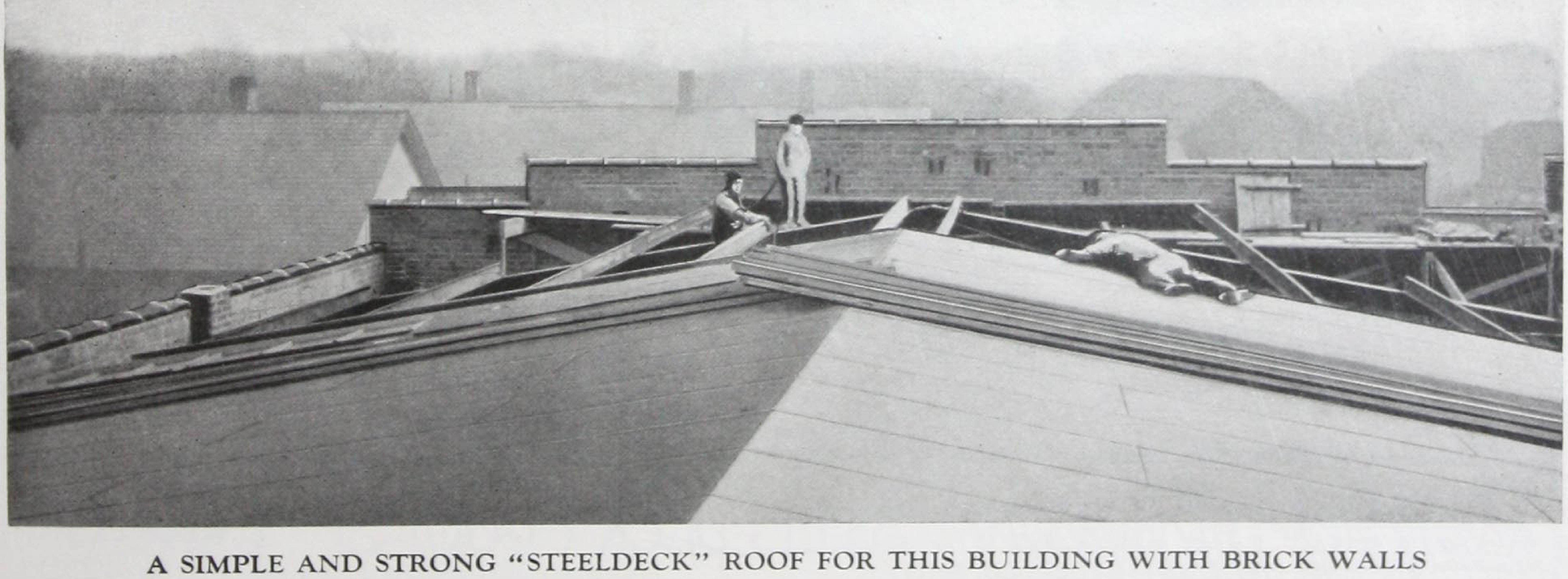
"Steeldeck" Is Economical for Straight Roofs

THIS type of roof is not recommended for roofs of complicated design but for buildings having either flat or pitched straightaway roofs. "Steeldeck" can be used at less cost than any other roof decking which combines all of its features.

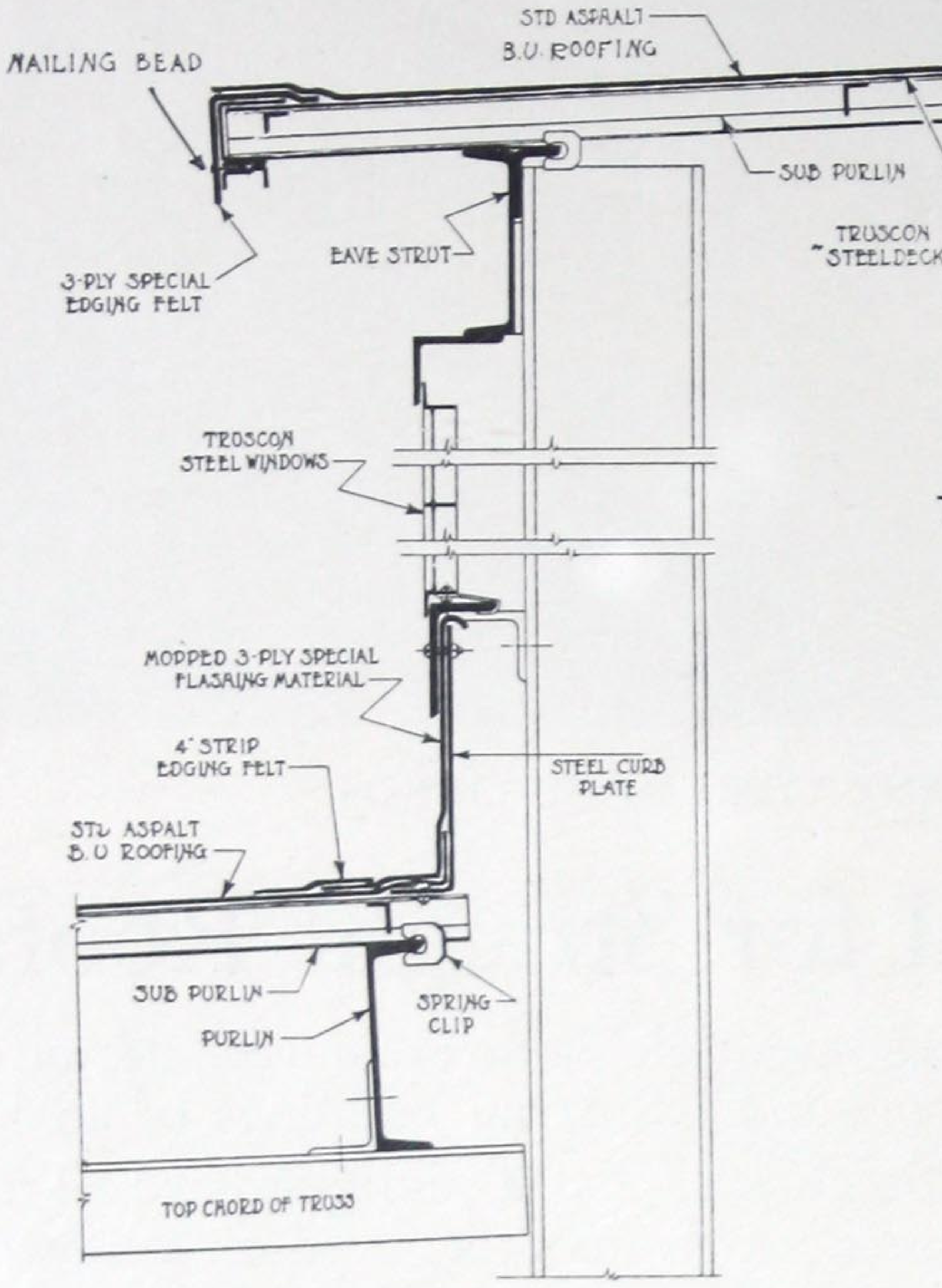
Its qualities, distinctive and most desirable, constitute significant reasons for the widespread acceptance accorded "Steeldeck" by architects and engineers. Besides being used on all Series "B" Truscon Buildings and if desired, on Series "A" Truscon Buildings, "Steeldeck" is used as a secure roof for hotels, apartment houses, public garages, theatres, warehouses, telephone exchanges, dormitories, schools and industrial buildings of all kinds.

"Steeldeck" is a standardized Truscon product. It is manufactured on a large scale production basis that makes possible a market price much lower than that of any other roof decking which approximates the superiority achieved by the combined features of Truscon "Steeldeck."

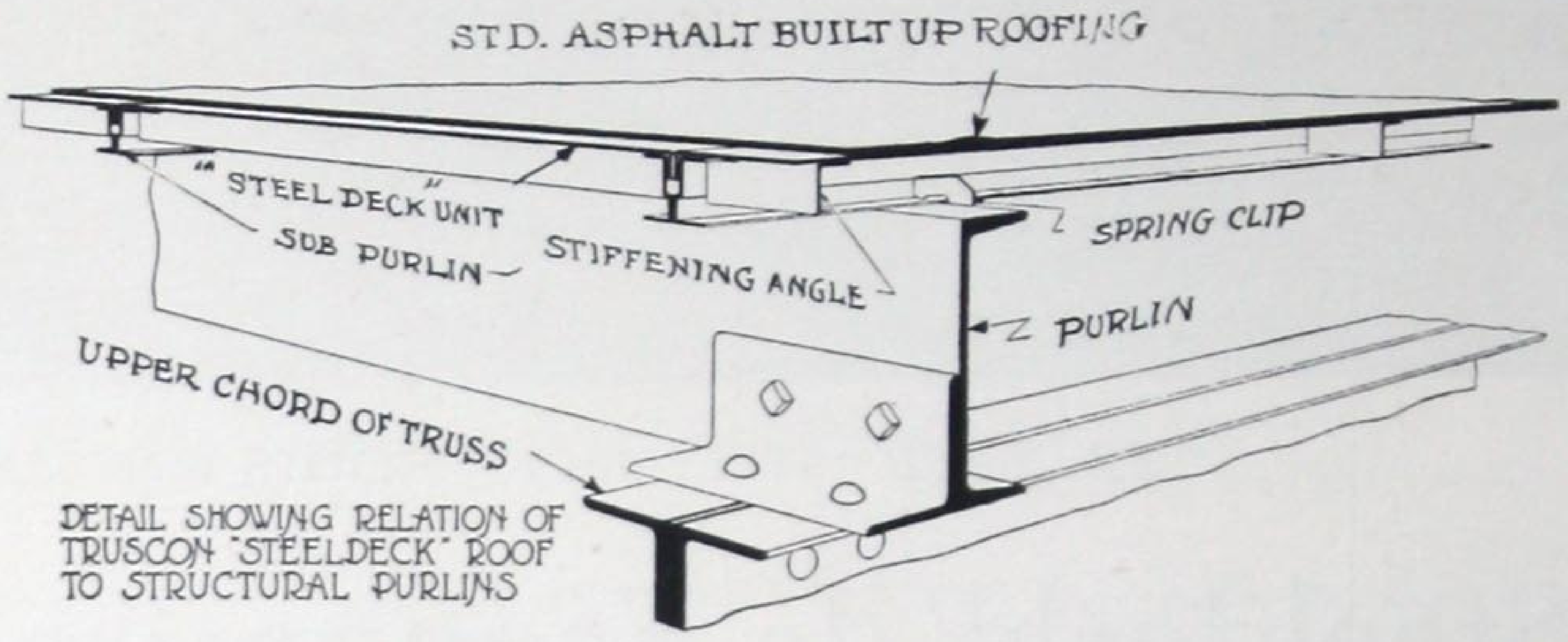
This product stands alone above the mass of common light weight roof decking that is regarded as a menace and a fire risk. It gives the builder a roof that is a guardian of property—a sentinel of safety.



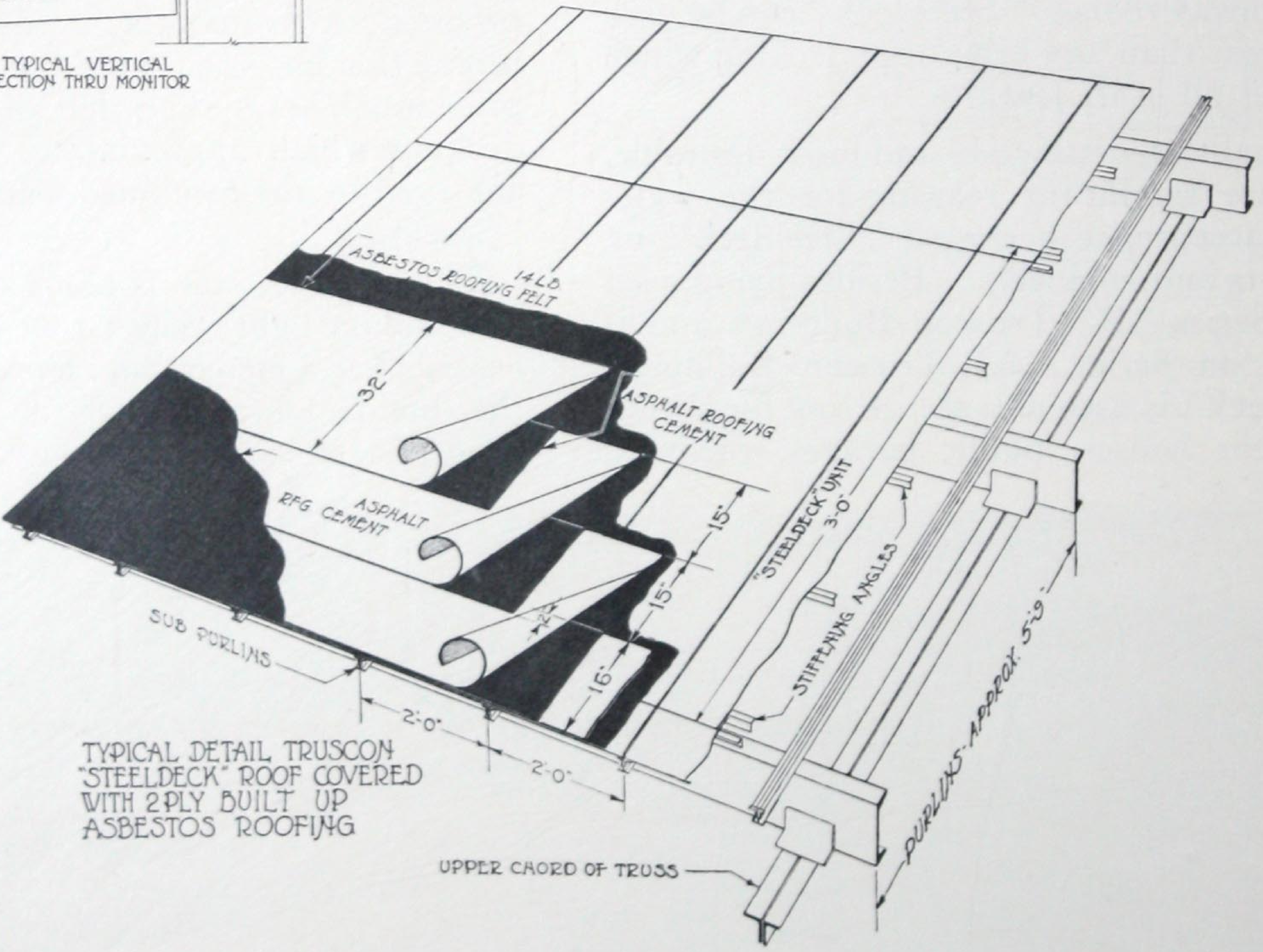
A SIMPLE AND STRONG "STEELDECK" ROOF FOR THIS BUILDING WITH BRICK WALLS



TYPICAL VERTICAL SECTION THRU MONITOR

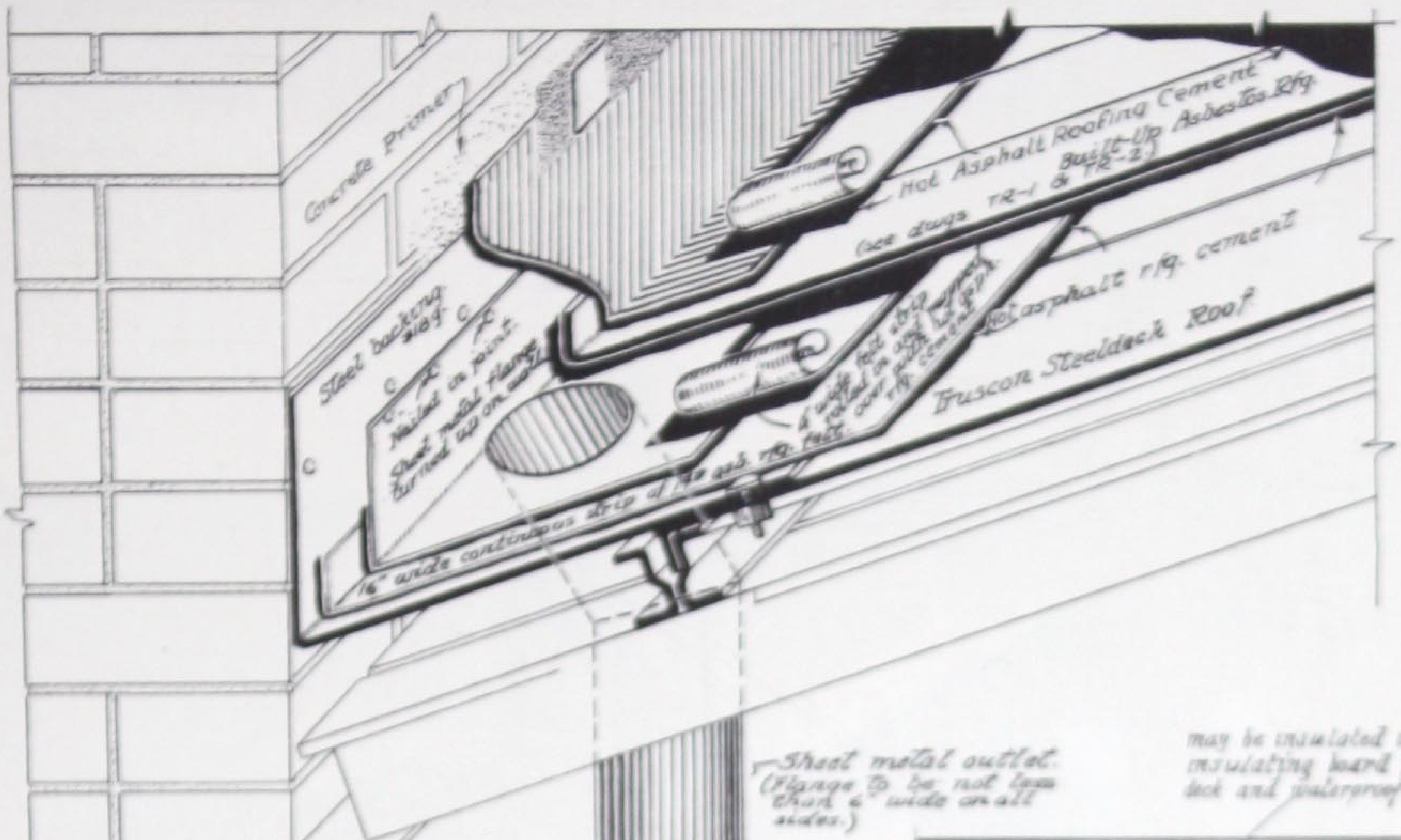


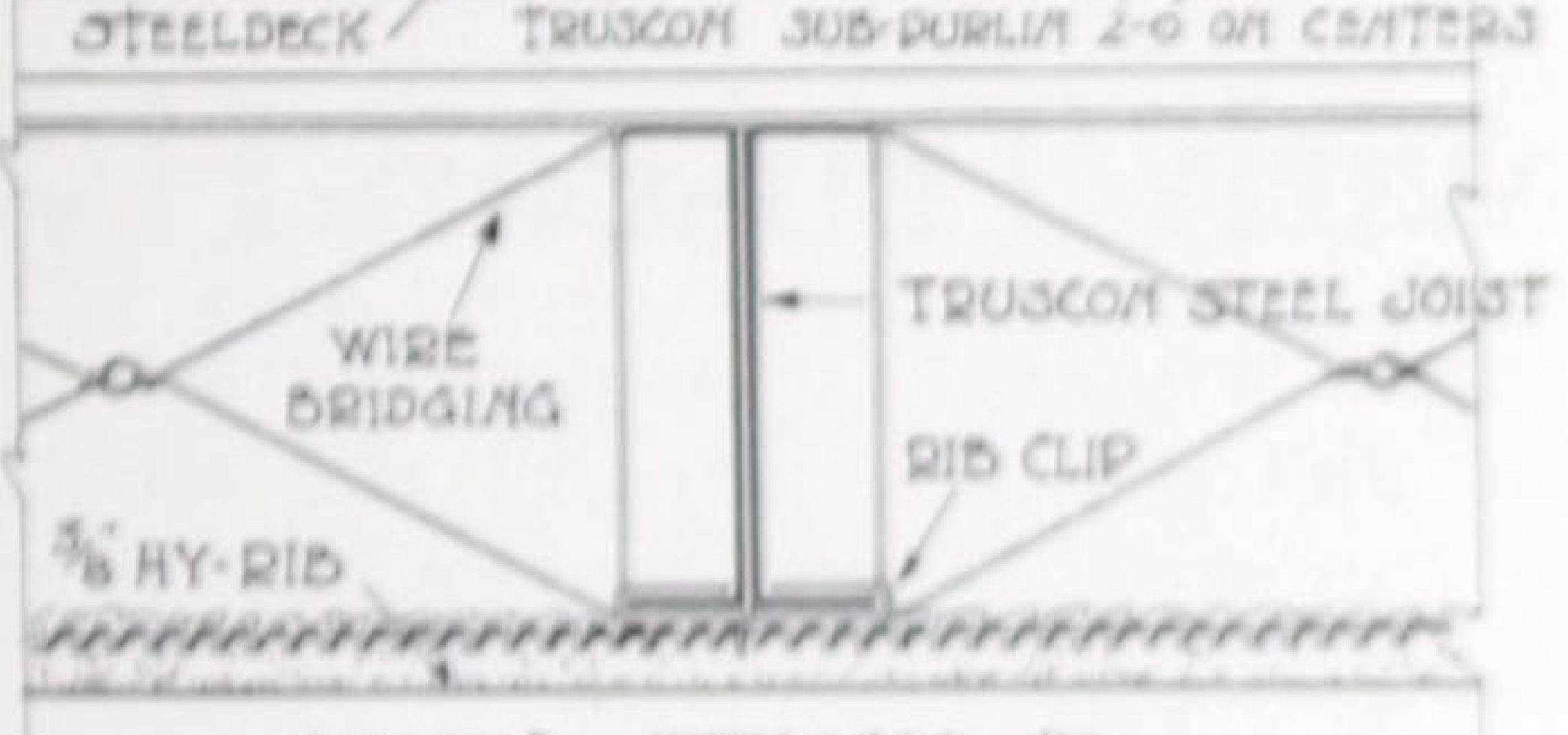
DETAIL SHOWING RELATION OF TRUSCON "STEELDECK" ROOF TO STRUCTURAL PURLINS



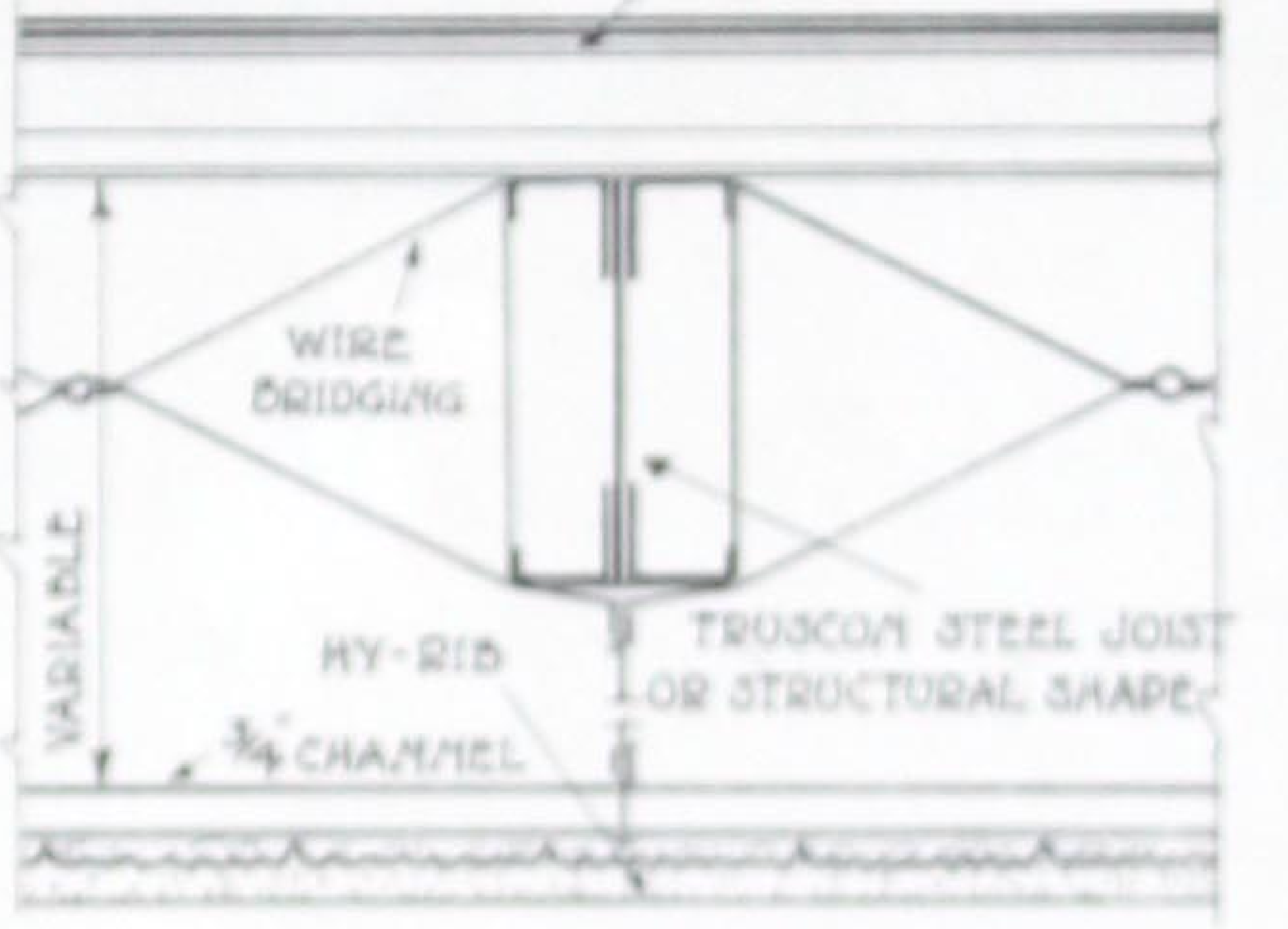
TYPICAL DETAIL TRUSCON "STEELDECK" ROOF COVERED WITH 2 PLY BUILT UP ASBESTOS ROOFING

TRUSCON "STEELDECK" ROOFS With Built-Up Roofing	GENERAL DETAILS OF TRUSCON · STEELDECK · ROOFS TRUSCON · STEEL · COMPANY · YOUNGSTOWN · OHIO	SD-1 JAN · 1925

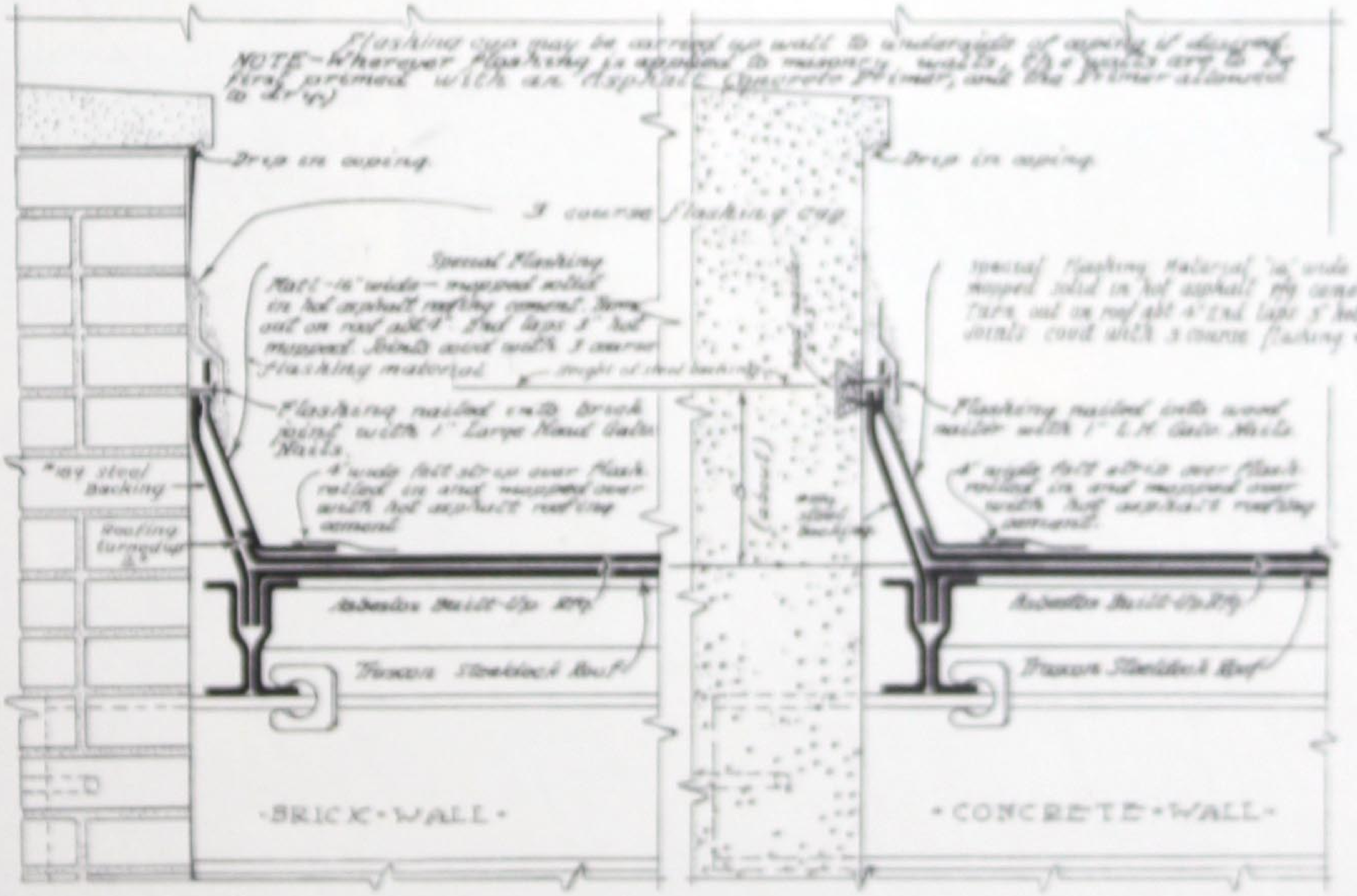

Concrete Primer
Hot Asphalt Roofing Cement
Built-Up Asbestos Rfg.
(see dwgs TR-1 & TR-2.)
Hot asphalt rfg. cement
Truscon Steeldeck Roof
Steel backing #18 g.
Nailed in joint
Sheet metal flange turned up on wall
4" wide felt strip rolled in and mopped over with hot rfg. cement
16" wide continuous strip of 14# asb. rfg. felt
Sheet metal outlet. (Flange to be not less than 6" wide on all sides.)



CEILING ATTACHED TO TRUSCON STEEL JOIST


may be insulated with any standard insulating board placed between deck and waterproofing
WIRE BRIDGING
VARIABLE
HY-RIB
TRUSCON STEEL JOIST OR STRUCTURAL SHAPE
3/4" CHANNEL

CEILING SUSPENDED FROM TRUSCON STEEL JOIST


Flashing cap may be carried up wall to underside of coping if desired.
NOTE—Wherever Flashing is applied to masonry walls, the walls are to be first primed with an Asphalt Concrete Primer, and the Primer allowed to dry.
Drip in coping.
3 course flashing cap
Special Flashing Matl.-16" wide—mopped solid in hot asphalt roofing cement. Turn out on roof abt 4". End laps 3" hot mopped. Joints covd with 3 course flashing material
height of steel backing
Flashing nailed into brick joint with 1" Large Head Galv. Nails.
#18 g. steel backing
4" wide felt strip over flash. rolled in and mopped over with hot asphalt roofing cement
Roofing turned up 3"
Asbestos Built-Up Rfg.
Truscon Steeldeck Roof
-BRICK-WALL-
Drip in coping.
Special Flashing Material 16" wide mopped solid in hot asphalt rfg cement turn out on roof abt 4" End laps 3" hot mopped joints covd with 3 course flashing material
Flashing nailed into wood nailer with 1" L.H. Galv. Nails
4" wide felt strip over flash. rolled in and mopped over with hot asphalt roofing cement.
(about)
steel backing
Asbestos Built-Up Rfg.
Truscon Steeldeck Roof
-CONCRETE-WALL-

TRUSCON STEELDECK ROOFS
With Built-Up Roofing

CONSTRUCTION DETAILS

-TRUSCON-STEELDECK-ROOFS-

-TRUSCON-STEEL-COMPANY- -YOUNGSTOWN-OHIO-

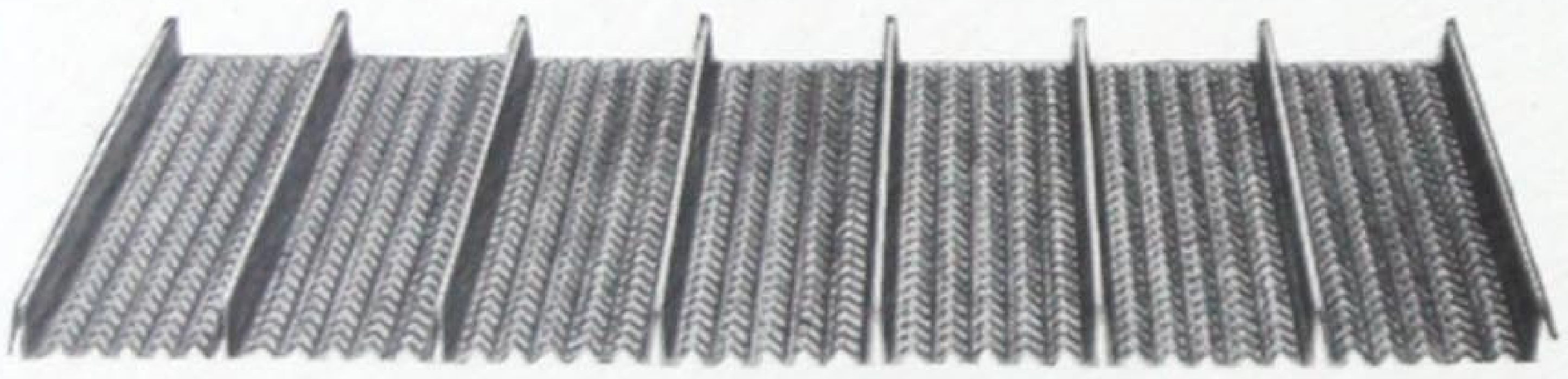
SD-3

-JAN-1925-

HY-RIB REINFORCED CONCRETE ROOFS ARE QUICKLY ERECTED

Concrete Roofs Reinforced with Truscon Hy-Rib

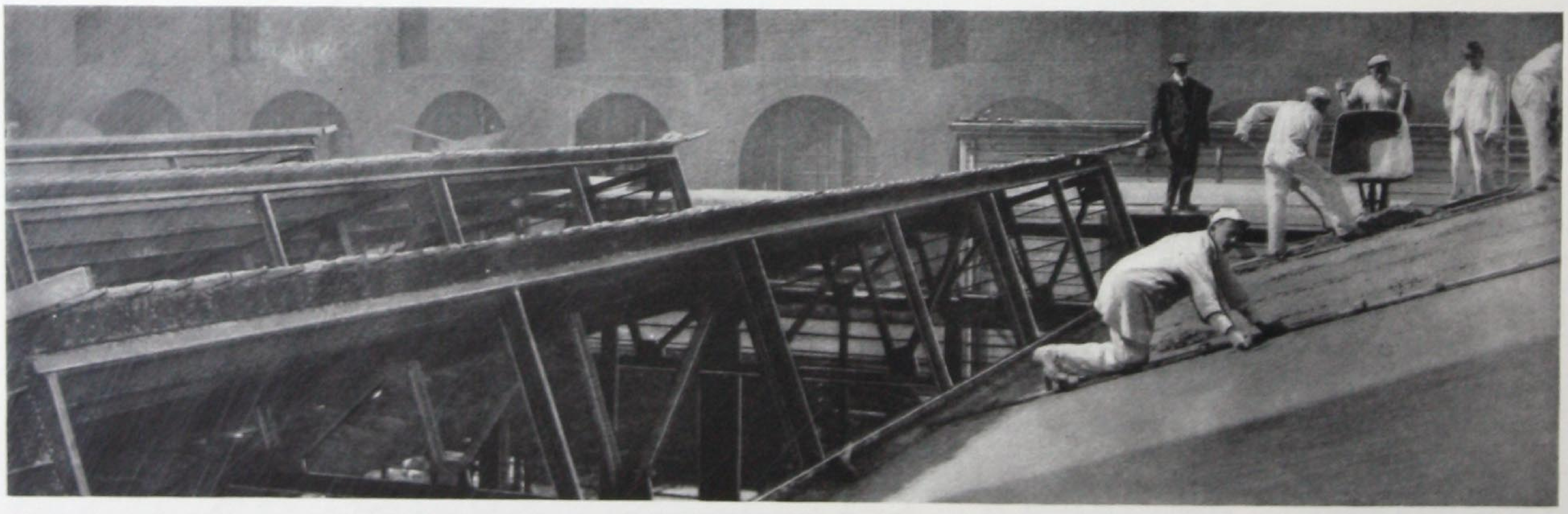
WHENEVER conditions warrant it Truscon Hy-Rib concrete roofs can be had at an exceptionally low cost because they are quickly erected, light in weight and do not require special equipment on forming. It is not necessary to plaster the under-side of a Hy-Rib concrete roof, and this in itself makes a considerable saving. The clean, sharp black lines of the ribs with the grey concrete on the under-side give a very pleasing effect.



TRUSCON ¾″ HY-RIB

The erection of a Hy-Rib concrete roof is very simple. Sheets of Hy-Rib are laid over supports, clipped or nailed in place, small pencil rods are wired to the Hy-Rib in both directions, and the concrete is poured. The concrete is easily leveled off.

Hy-Rib reinforced concrete is a very efficient type of permanent, fireproof and economical construction for roofs.



HY-RIB ROOFS ARE LIGHT IN WEIGHT BUT COMPETENTLY STRONG AND FIREPROOF

Sidewall Panels for Truscon Buildings

THE sidewall panels of Truscon Buildings can be combined in almost any arrangement. From the standard unit 4′ wide x 2′ 8″ high (Fig. 1), sidewalls that are multiples of its height (Fig. 3), are built up to heights of from 8′ 1″ to 21′ 5″ for Series "A" Truscon Buildings and to 32′ 10″ for Series "B" Truscon Buildings. Greater heights can be furnished by special arrangement, if desired.

Horizontal joining is ingeniously effected by interlocking the units with a stiff spring connection (Fig. 4).

Standard steel mullions (Fig. 5) are used for studs and to these the panels are fastened with the wedge and tee bolt connection (Fig. 2).

The mullion used for corners has a heavier flange, covering the edge of the panels it joins so that any impacts against the corner are received by this heavy steel section (Fig. 6).

It is apparent that these connections are organically rigid and tight, and cannot loosen.

There are no shop or field holes punched in the exposed surfaces of this 18 gauge copper alloy steel wall.

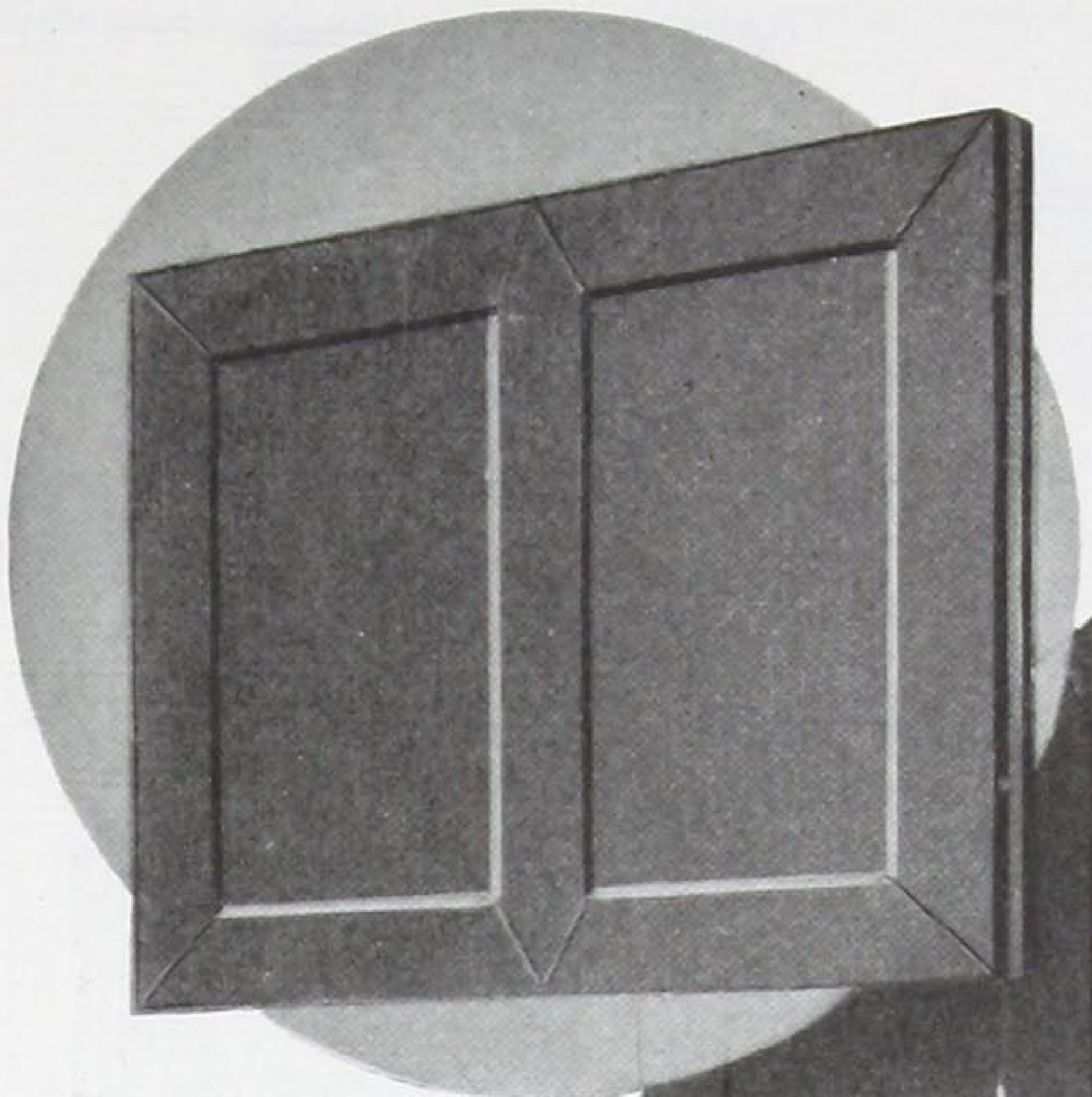


FIG. 1.

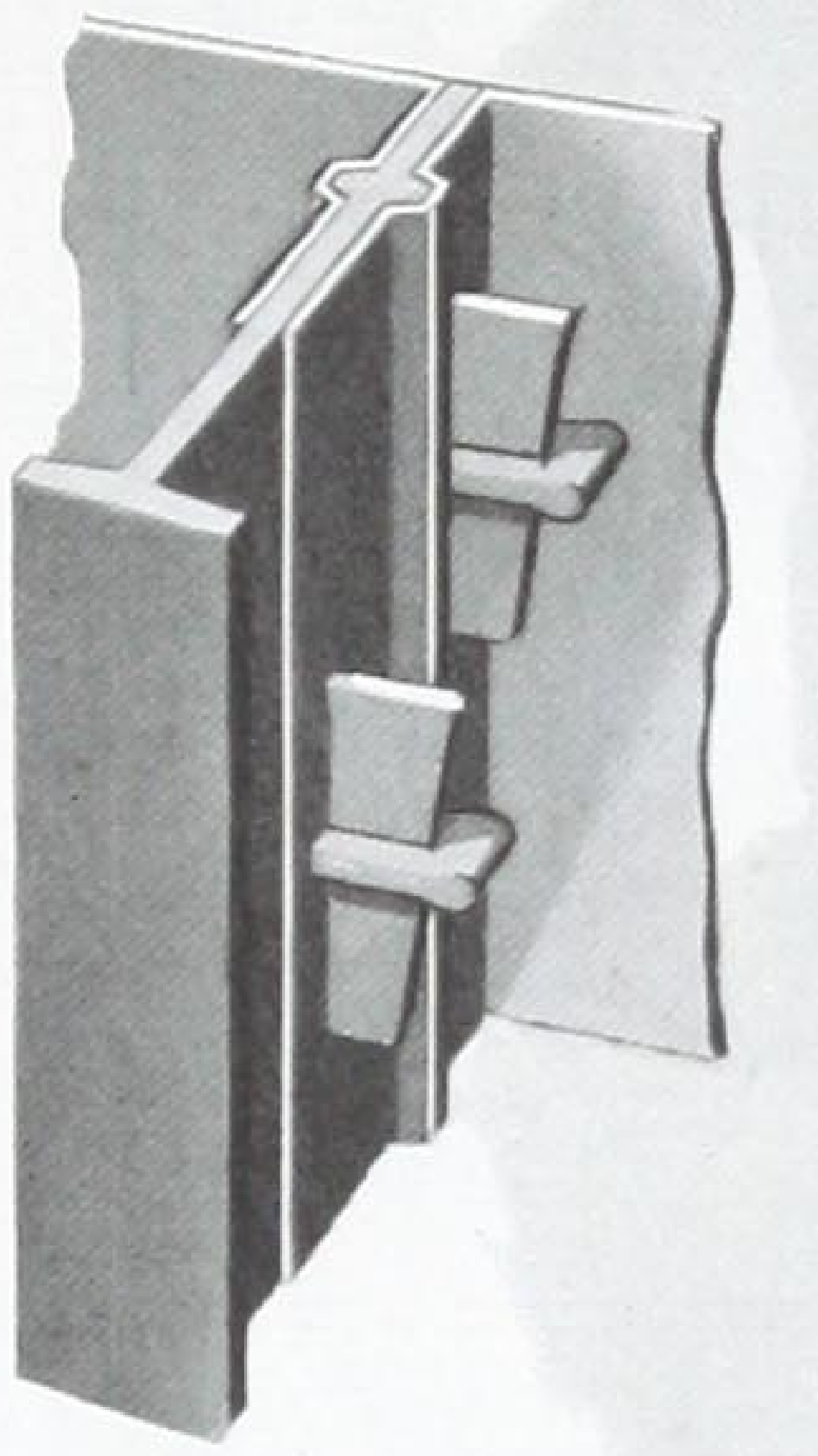


FIG. 2.

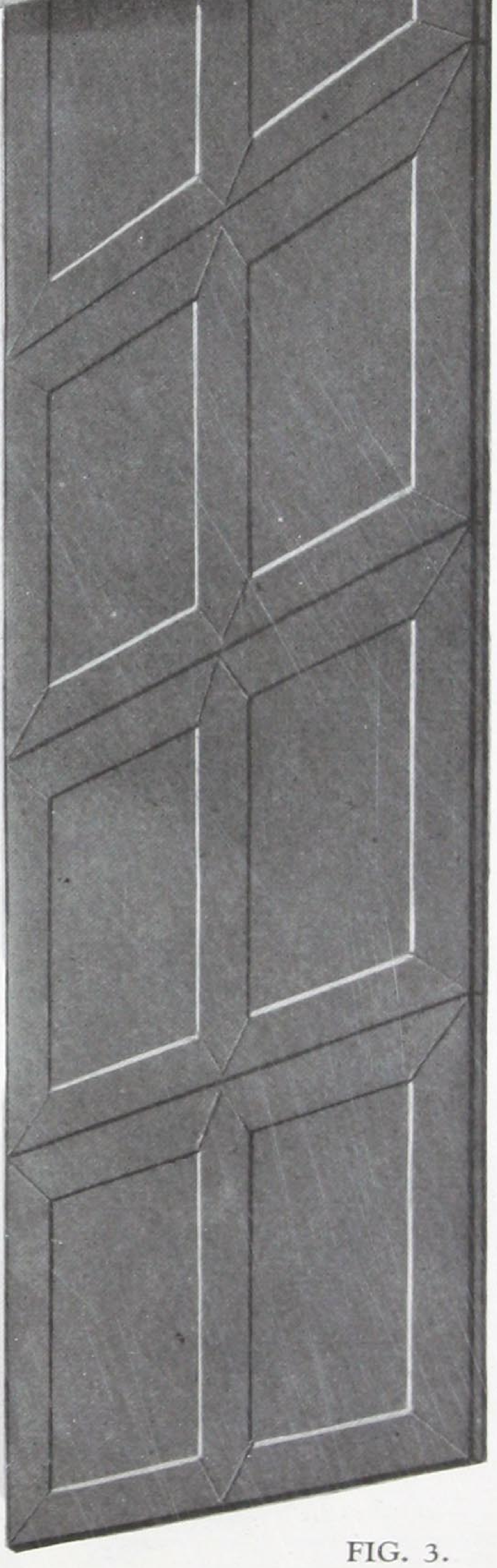


FIG. 3.

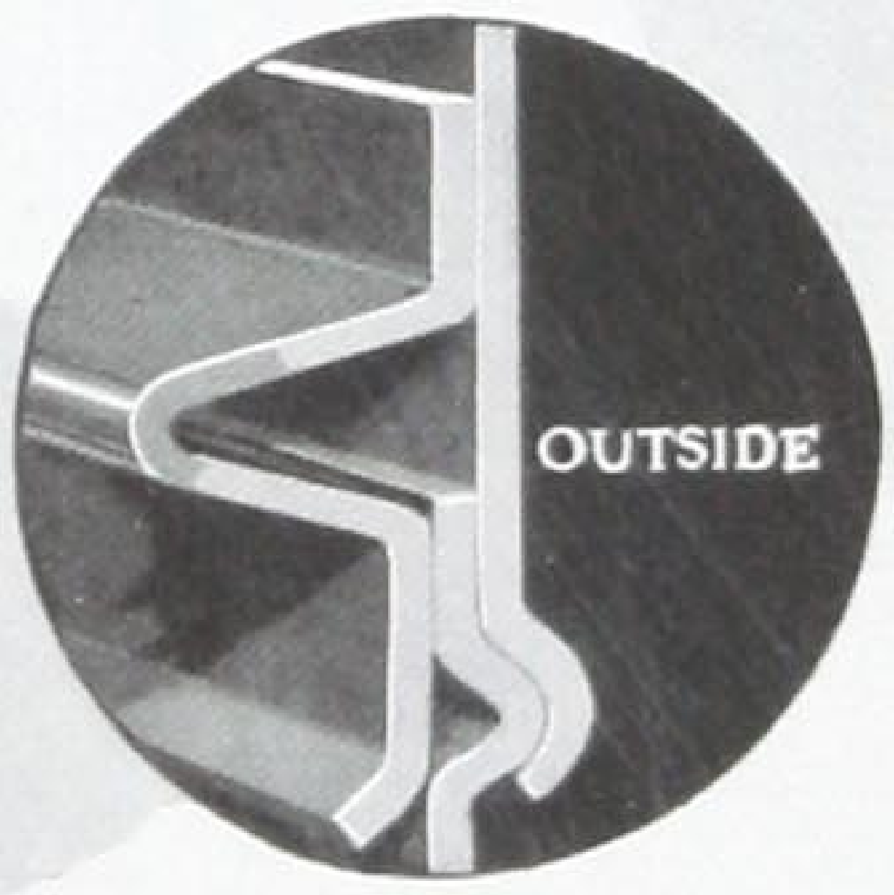


FIG. 4.

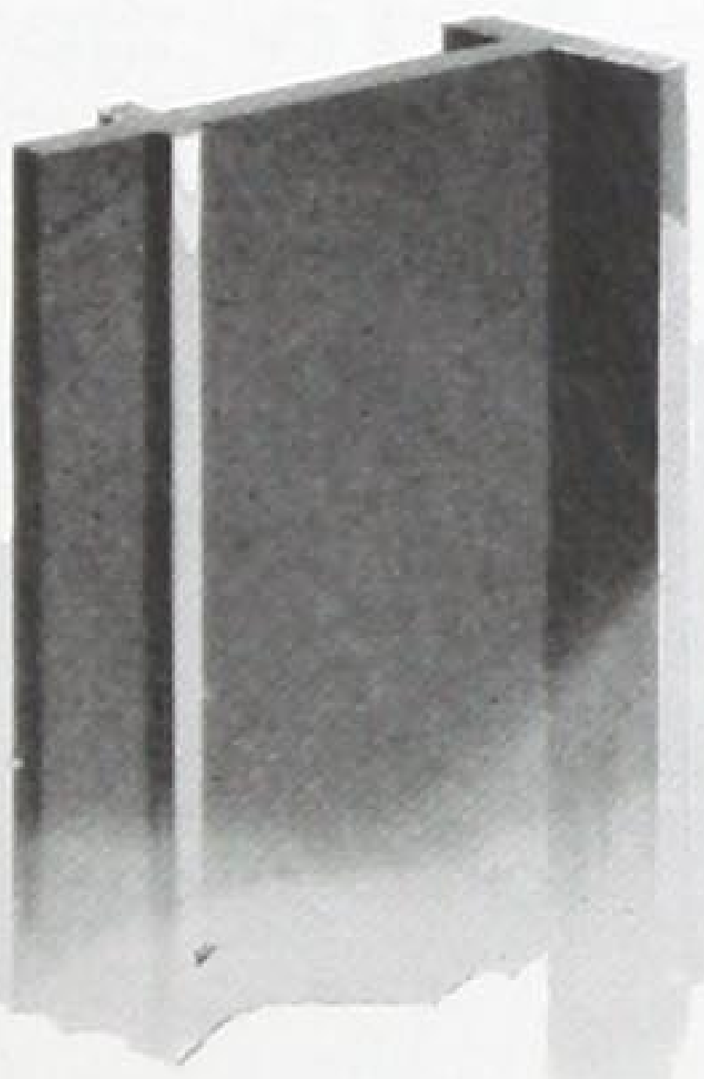


FIG. 5.

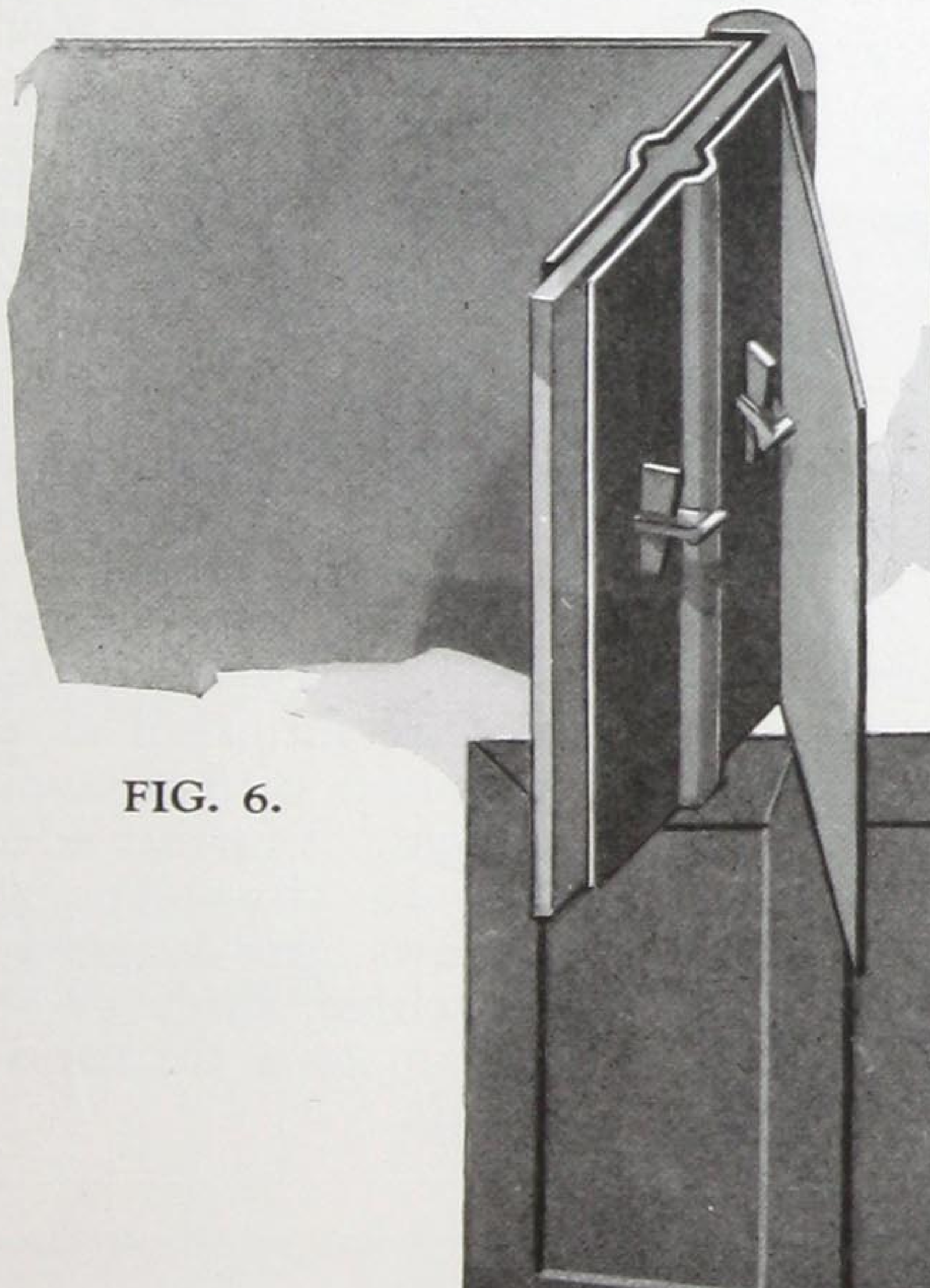


FIG. 6.

Daylight Panels for Truscon Buildings

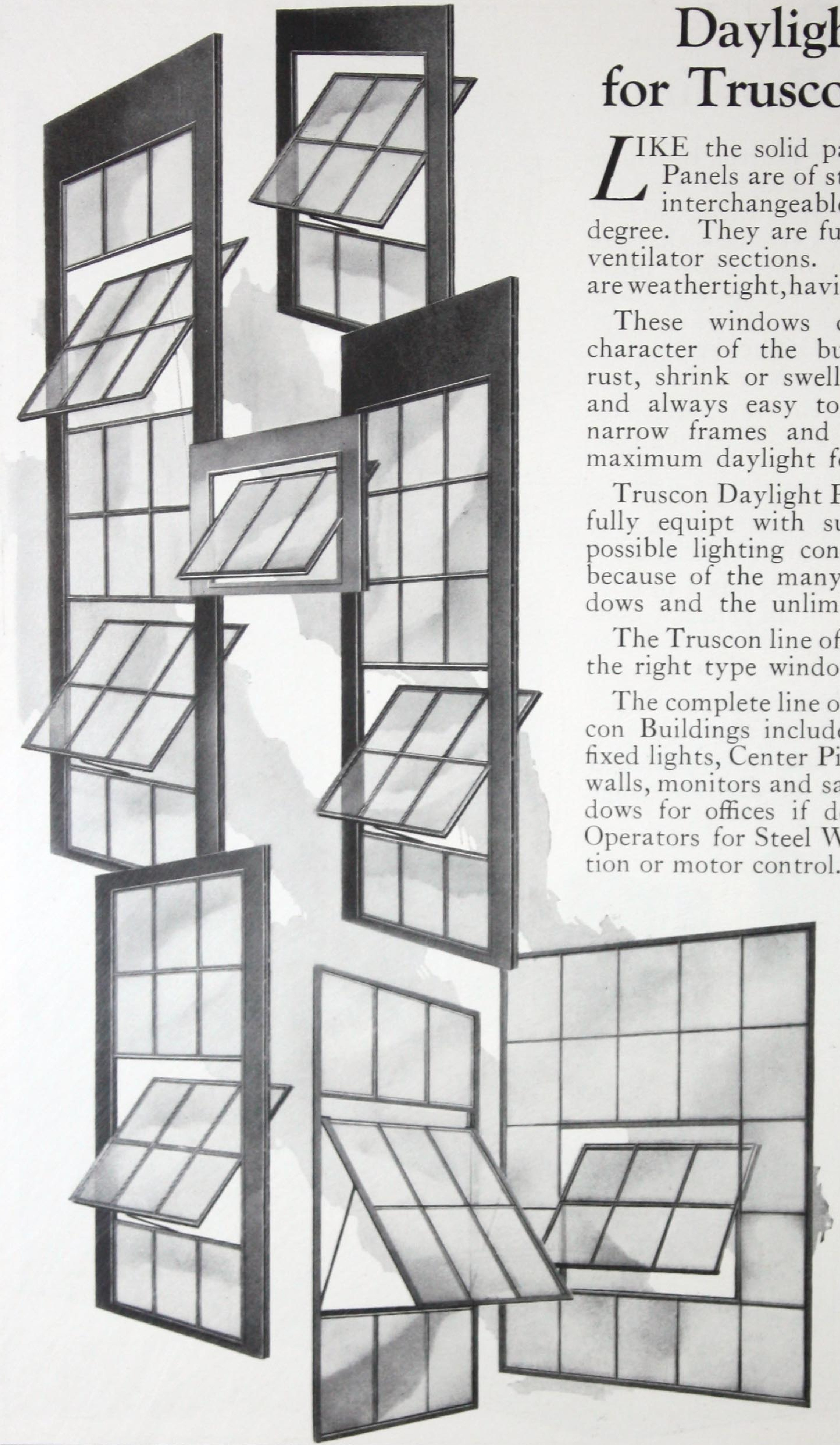
LIKE the solid panels, Truscon Daylight Panels are of standard sizes. They are interchangeable with solid panels to any degree. They are furnished with or without ventilator sections. Contacts of ventilators are weathertight, having two-point weathering.

These windows complete the fireproof character of the building. They will not rust, shrink or swell. They are permanent and always easy to open and close. The narrow frames and slender muntins allow maximum daylight for the window opening.

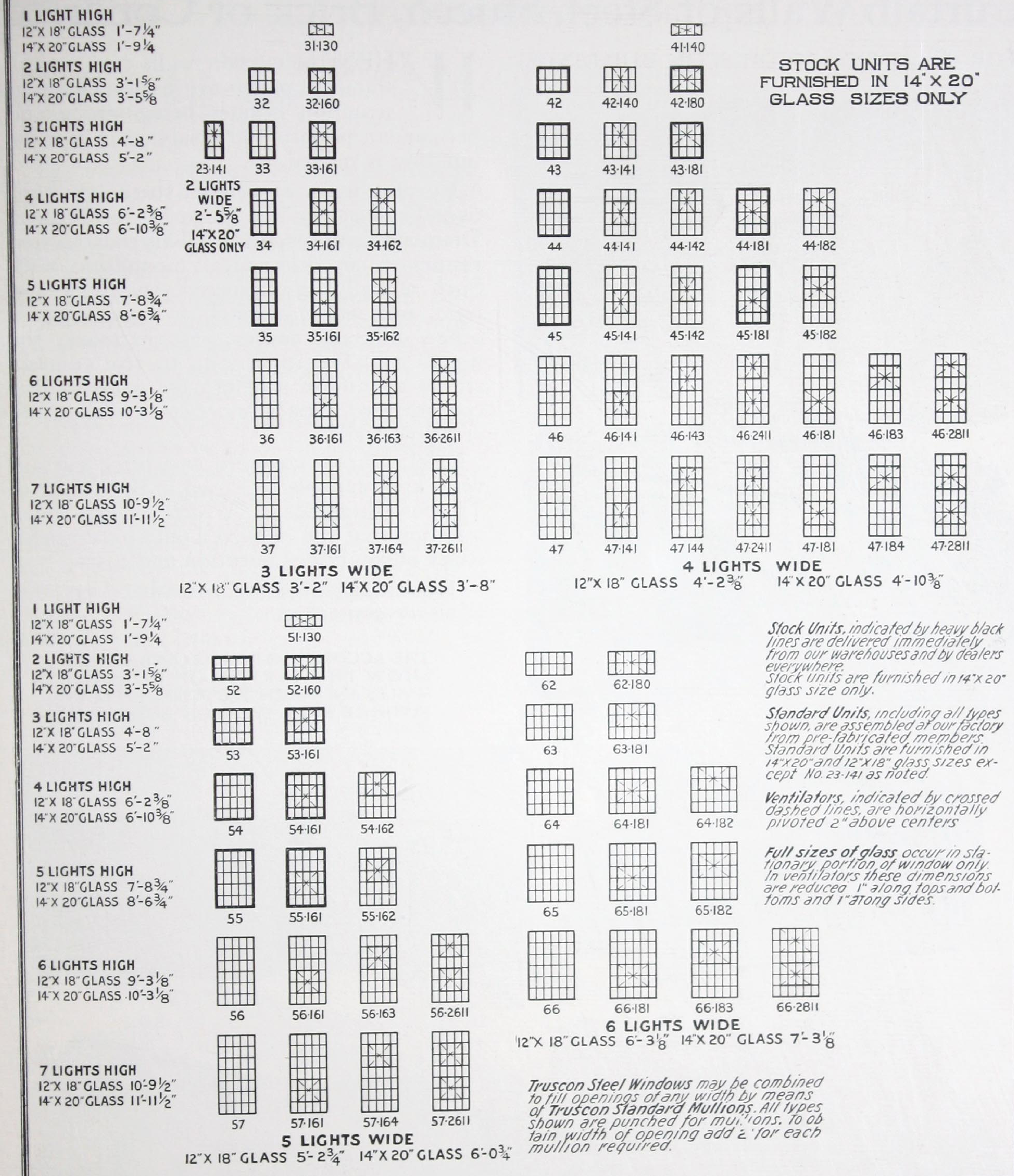
Truscon Daylight Panels are complete units fully equipt with suitable hardware. Any possible lighting condition can be obtained because of the many sizes of standard windows and the unlimited choice of location.

The Truscon line of Steel Windows provides the right type window for every purpose.

The complete line of steel windows for Truscon Buildings includes: Standard Sash with fixed lights, Center Pivoted Windows, for side walls, monitors and sawtooth; Projected Windows for offices if desired; and Mechanical Operators for Steel Windows for hand operation or motor control.



TRUSCON WINDOWS are electrically welded into the panels before shipment except where they are to be set in concrete or masonry. In such cases they are furnished as separate units with expandible mullions. A further advantage is that Truscon Windows are designed to take either sheet or wire glass up to a thickness of 1/4 inch.



STOCK UNITS ARE FURNISHED IN 14"X 20" GLASS SIZES ONLY

Stock Units, indicated by heavy black lines are delivered immediately from our warehouses and by dealers everywhere. Stock Units are furnished in 14"x 20" glass size only.

Standard Units, including all types shown, are assembled at our factory from pre-fabricated members. Standard Units are furnished in 14"x20" and 12"x18" glass sizes except No. 23·141 as noted.

Ventilators, indicated by crossed dashed lines, are horizontally pivoted 2" above centers.

Full sizes of glass occur in stationary portion of window only. In ventilators these dimensions are reduced 1" along tops and bottoms and 1" along sides.

Truscon Steel Windows may be combined to fill openings of any width by means of Truscon Standard Mullions. All types shown are punched for mullions. To obtain width of opening add 2" for each mullion required.

TRUSCON STEEL WINDOWS

—TYPES AND SIZES—

TRUSCON STOCK & STANDARD WINDOWS

TRUSCON STEEL COMPANY. YOUNGSTOWN. OHIO.

A-1

·FEB-1925·

Curtain Walls of Steel, Stucco, Brick or Concrete

[FOR ALL TYPES OF TRUSCON BUILDINGS]

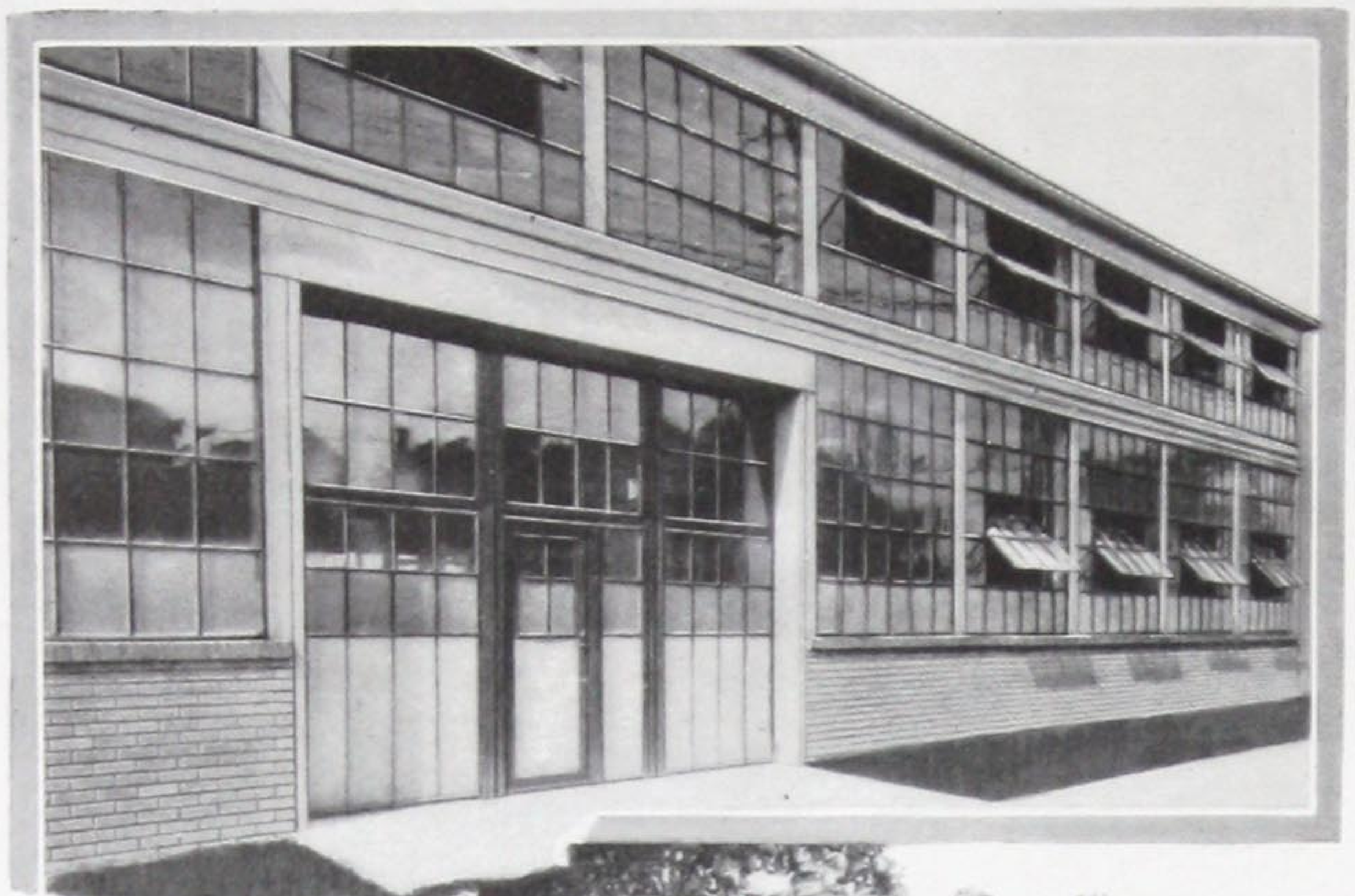
WHEN the curtain walls are of steel, standard panels are used. This construction besides being strong and permanent, permits 100% salvage in case the building is moved.

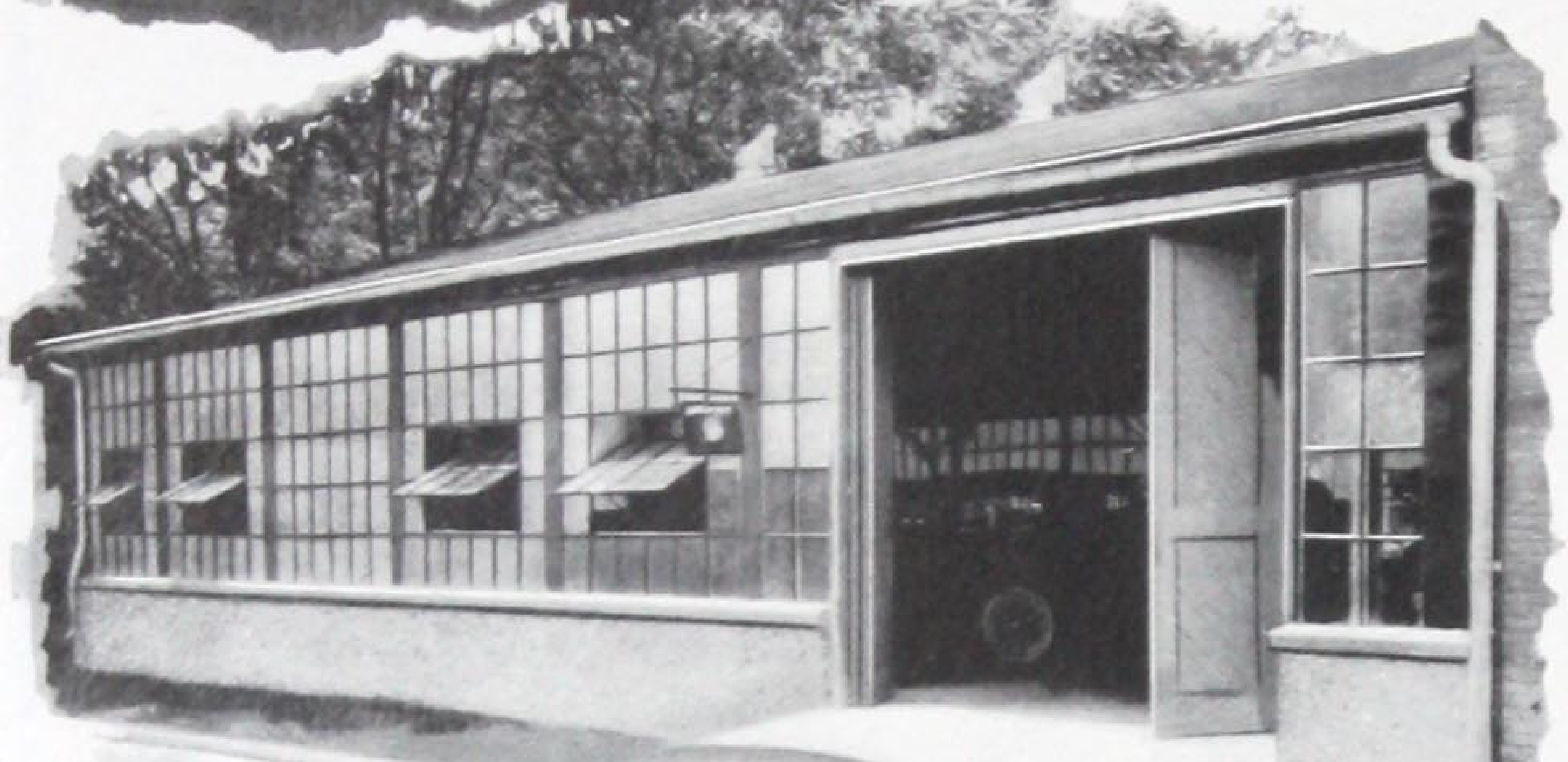
Curtain walls of cement stucco are built over Truscon Hy-Rib (page 28), or Truscon Diamond Lath (page 37). This construction results in an economical monolithic wall. Such a wall, so reinforced, is strong and rigid and will not crack from settling or other ordinary causes. Furthermore, the metal reinforcing lends to the cement stucco a uniform strength for withstanding concentrated impacts more successfully than ordinary walls.

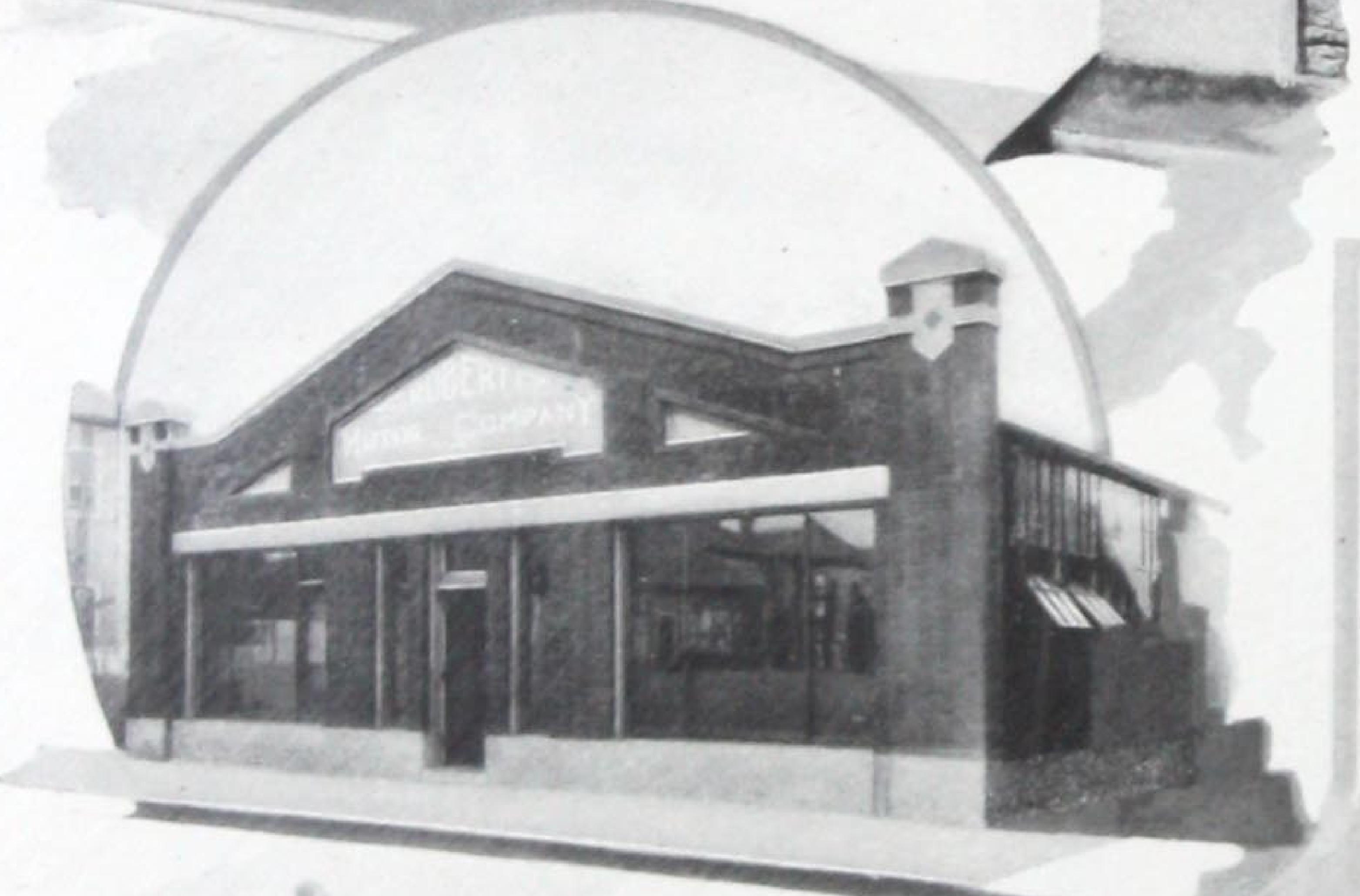
Steel, stucco, concrete and brick curtain walls are available and used in the design of Truscon Buildings. "Which to use" is a question that can be solved only by a careful study of conditions, location and costs.

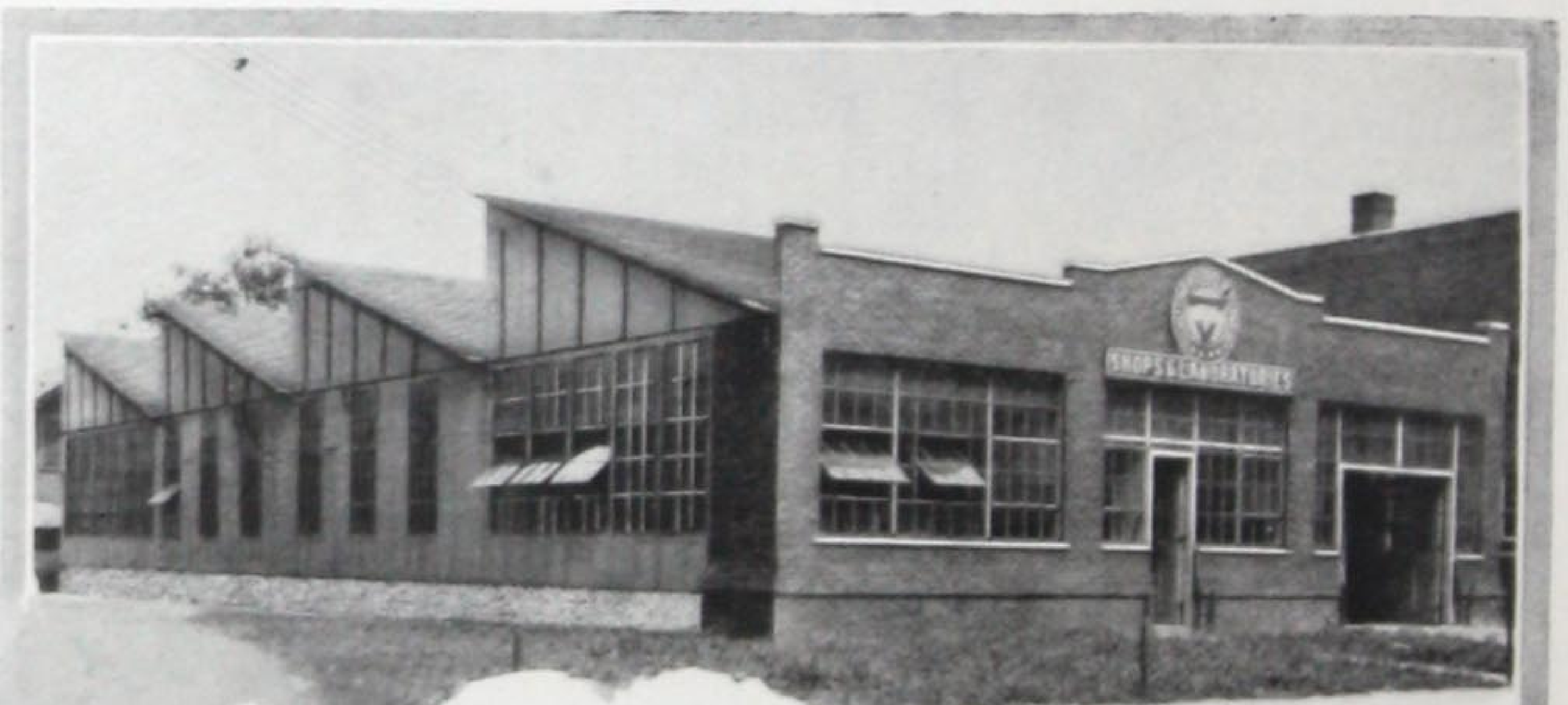
Truscon Engineering Service covers this advisory assistance.

THE ACCOMPANYING ILLUSTRATIONS SHOW THE VARIETY OF CURTAIN WALLS AND ARCHITECTURAL EFFECTS POSSIBLE WITH TRUSCON BUILDINGS









Endless Wall Combinations by Standardization

IN designing a Truscon Building any number of solid wall panels may be used in combination with any number of sidewall sash panels.

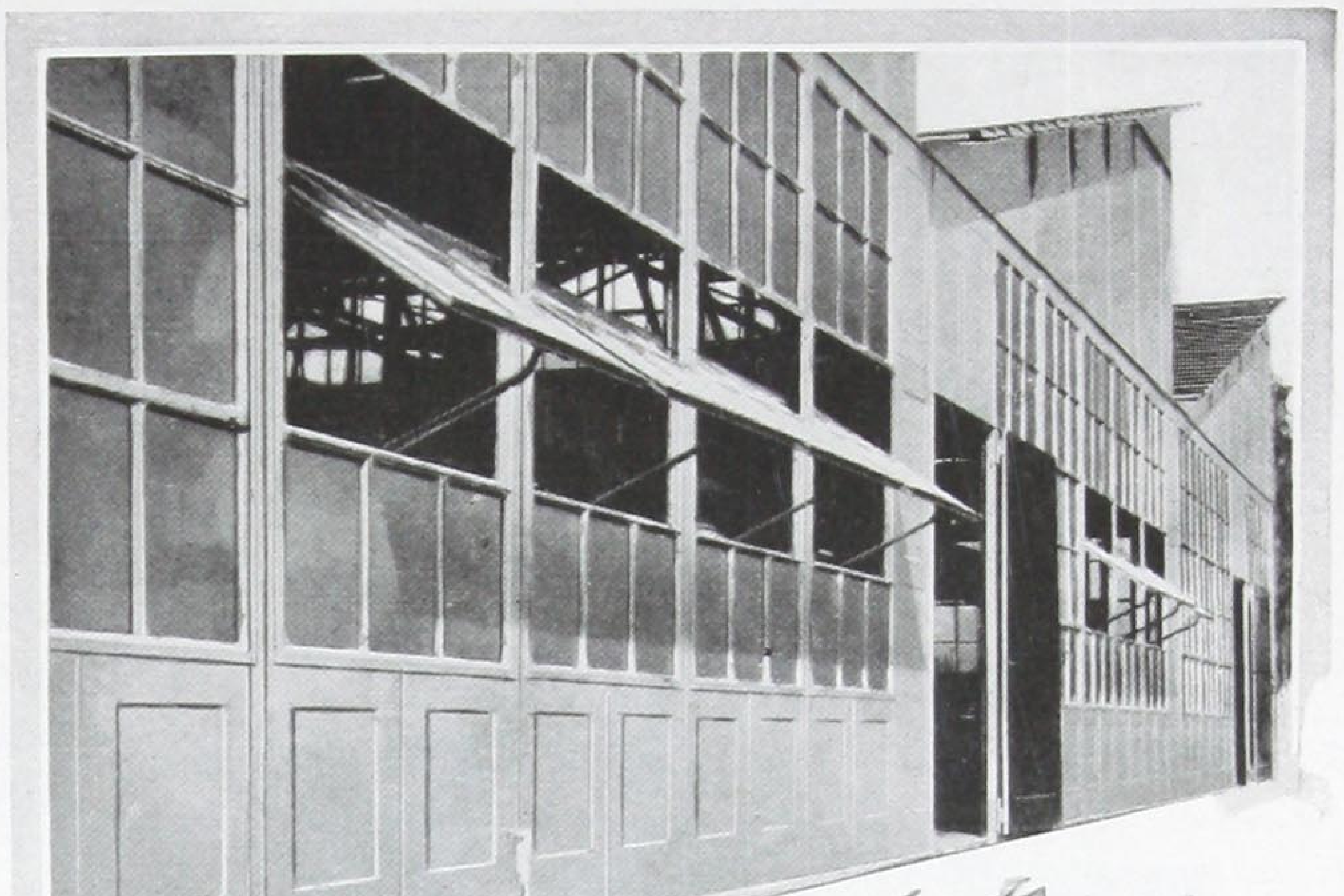
The number of possible arrangements is practically without limit. Just like the number of combinations possible on a checker-board which runs into millions.

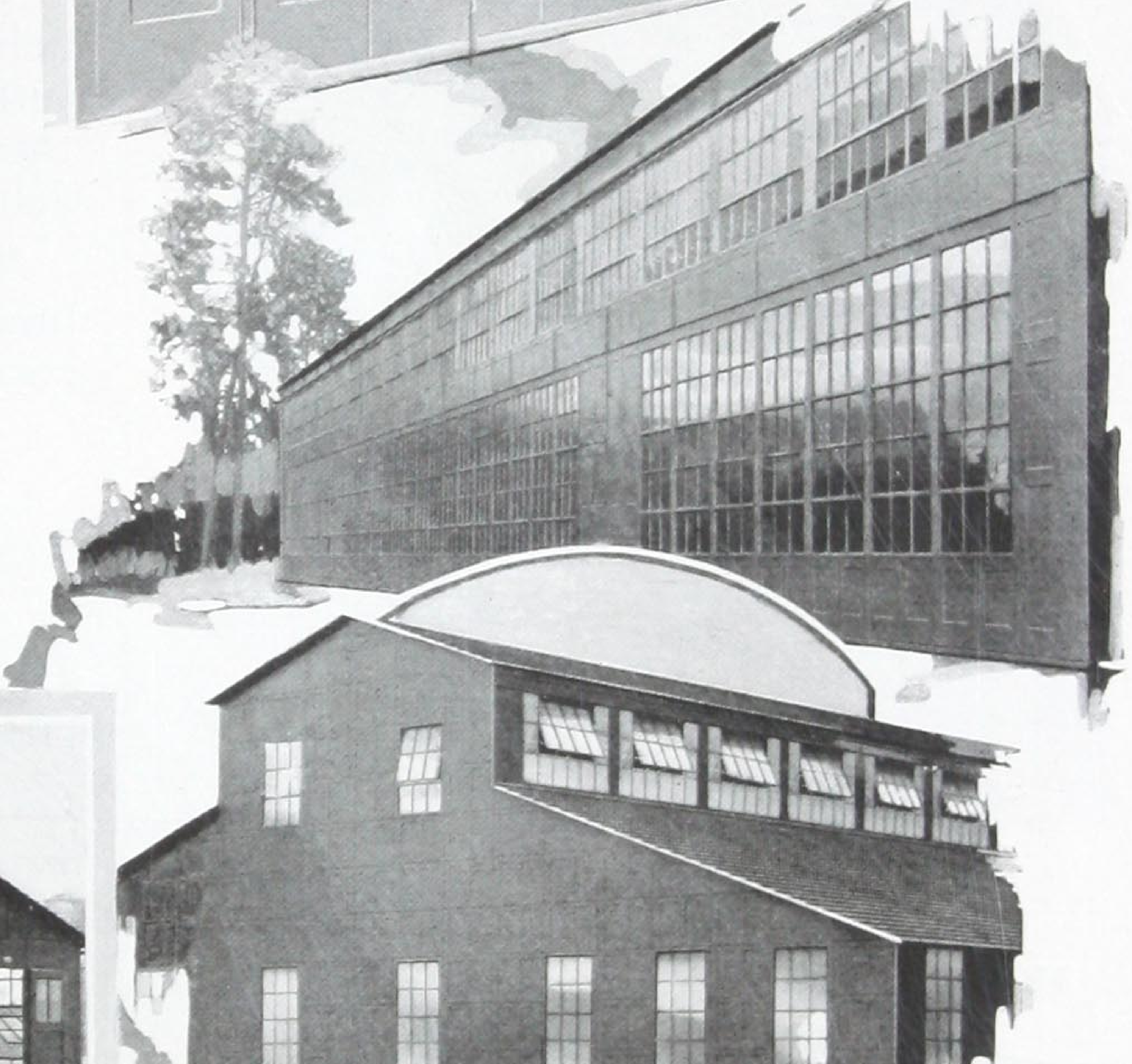
Any amount of daylight and ventilation can be provided. When continuous light and ventilation are required around the four walls the problem can be easily solved with a curtain wall of concrete or masonry and sidewall sash above.

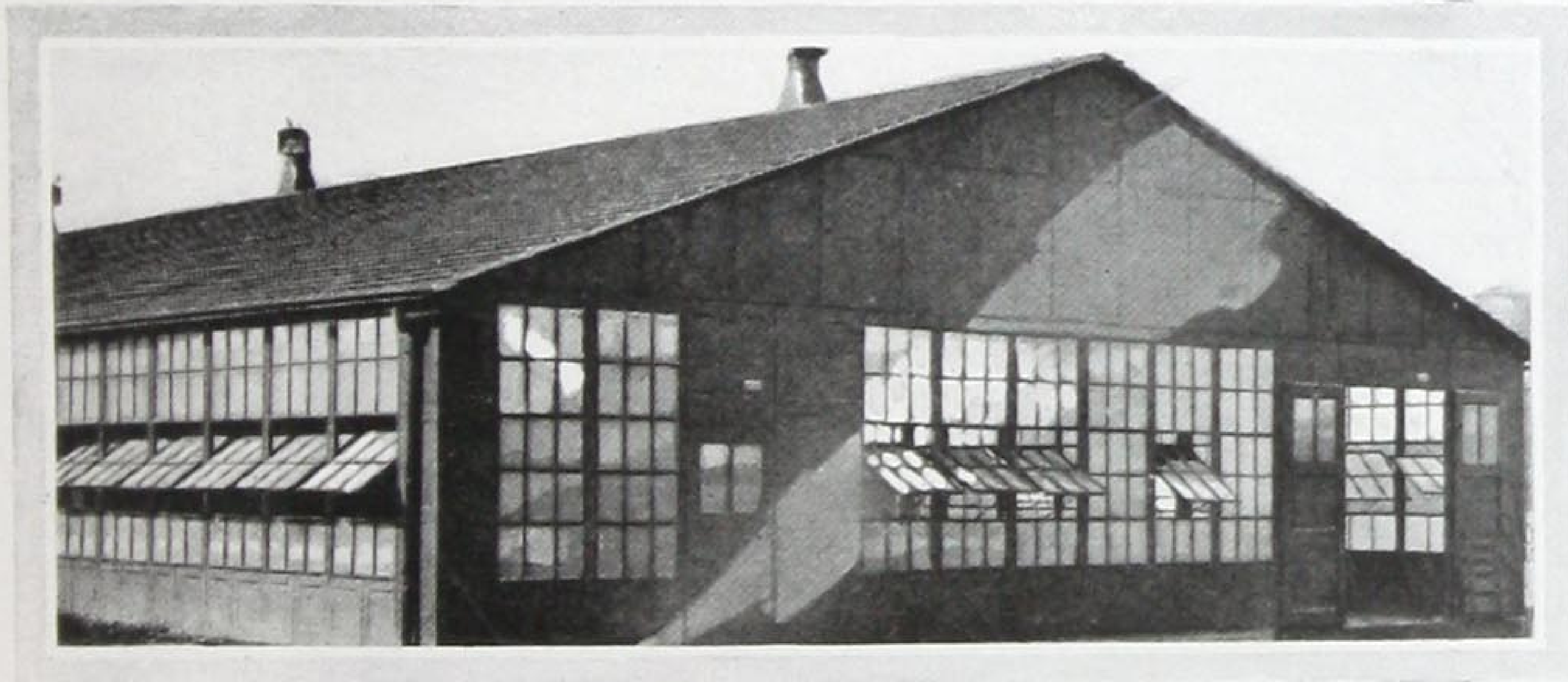
Ample light for bench work on all sides of the building can be provided and the purchaser is assured that, whatever combination is used, the resulting wall will be strong, rigid, weathertight and permanent. The sidewall combination of doors and windows will fit exactly the purpose for which the building is to be used. The 18 gauge copper bearing steel panels resist rust and corrosion, and reduce fire hazards to the minimum.

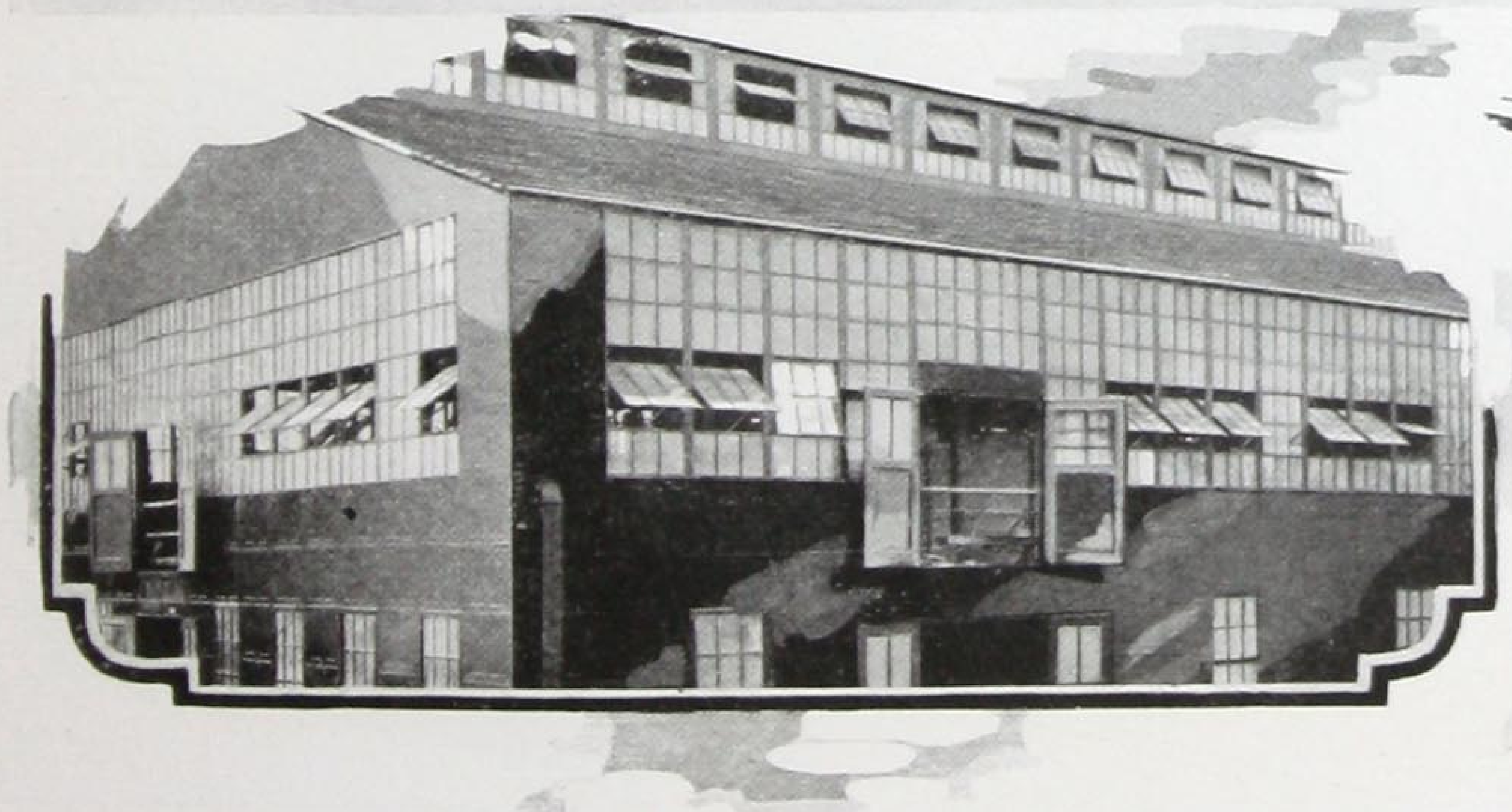
TRUSCON SOLID OR DAYLIGHT PANELS ARE OF STANDARDIZED DIMENSIONS, PERMITTING VERY EFFECTIVE COMBINATIONS AS ILLUSTRATED ON THIS PAGE

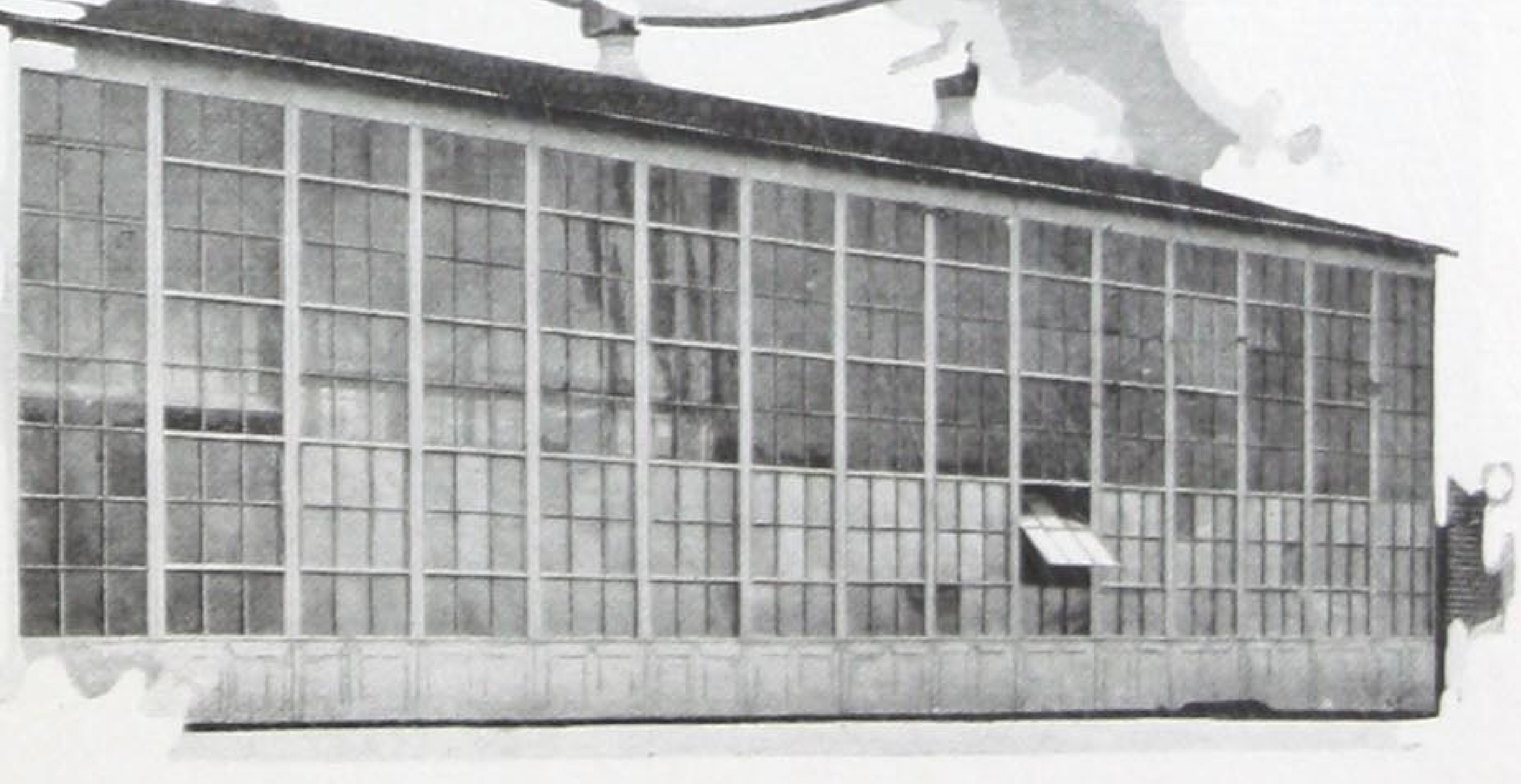
{FOR ALL TYPES OF TRUSCON BUILDINGS}











Standard Steel Doors

SWING AND SLIDING TYPES

STANDARD Truscon Steel Doors, Wall Panels and Frames are interchangeable. Thus, doorways may be placed anywhere in the steel walls of a Truscon Building. The doors are furnished in swing and sliding types, single, double, jackknife or in any type combinations. Upper panels may be of glass or solid.

Truscon Standard Steel Doors are manufactured from formed rails of copper steel. They are firesafe, permanent, and withstand rough usage. Nor will these doors warp or swell; ease of operation is assured. Corners are welded and internally reinforced against sagging.

The doors are factory fitted to their frames and delivered as complete units, fully equipt with suitable hardware. Volume production keeps them low in cost; complete stocks facilitate quick delivery.

They are used everywhere, in all kinds of buildings. They are heavy, rigidly made, and cost no more than a good grade of wooden door.

FIG. 1. TYPES WITH GLASS PANELS
FIG. 2. SLIDE TYPE WITH SOLID PANEL
FIG. 3. DOUBLE DOOR SWING TYPE
FIG. 4. JACK-KNIFE STYLE DOOR

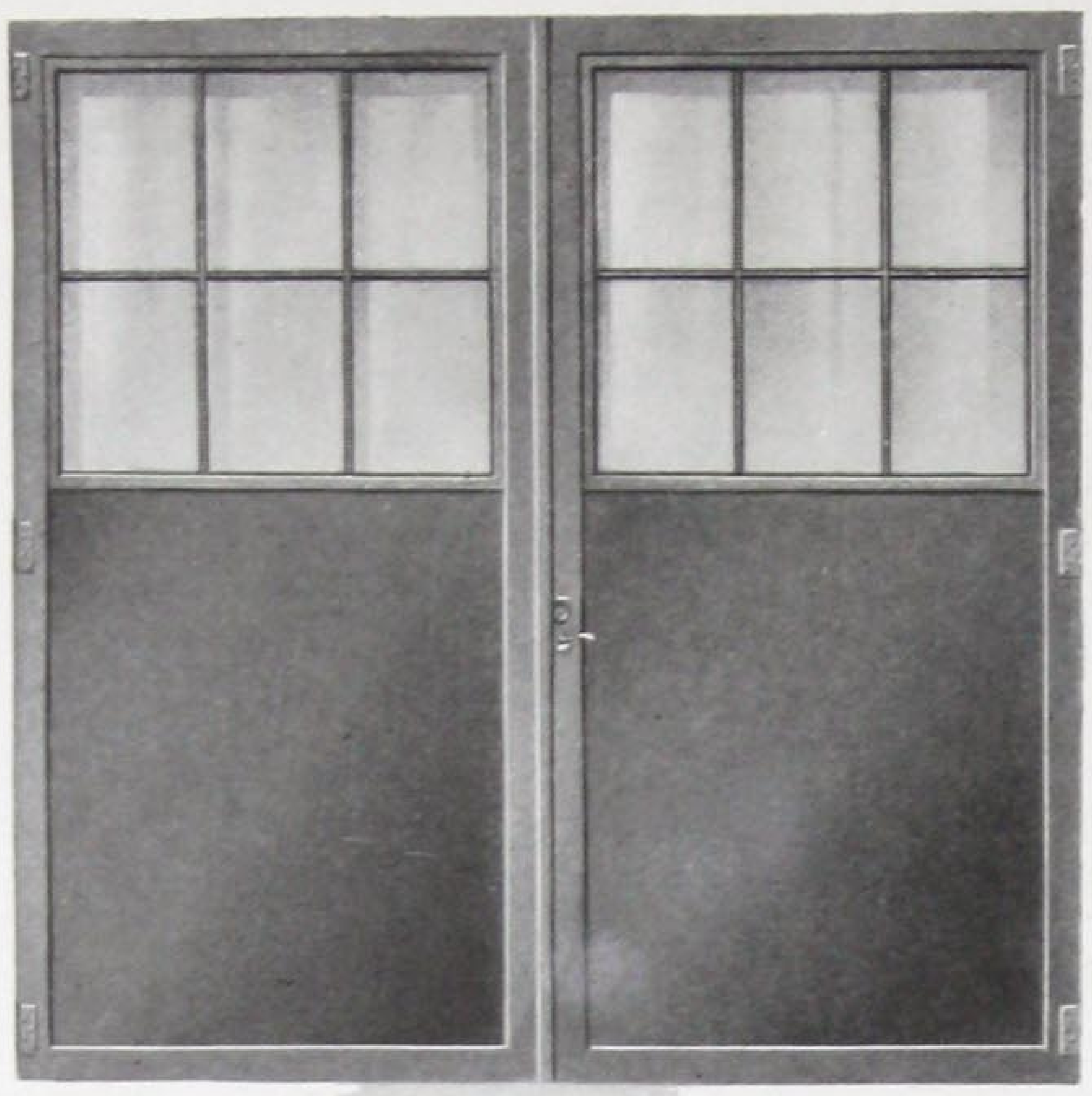
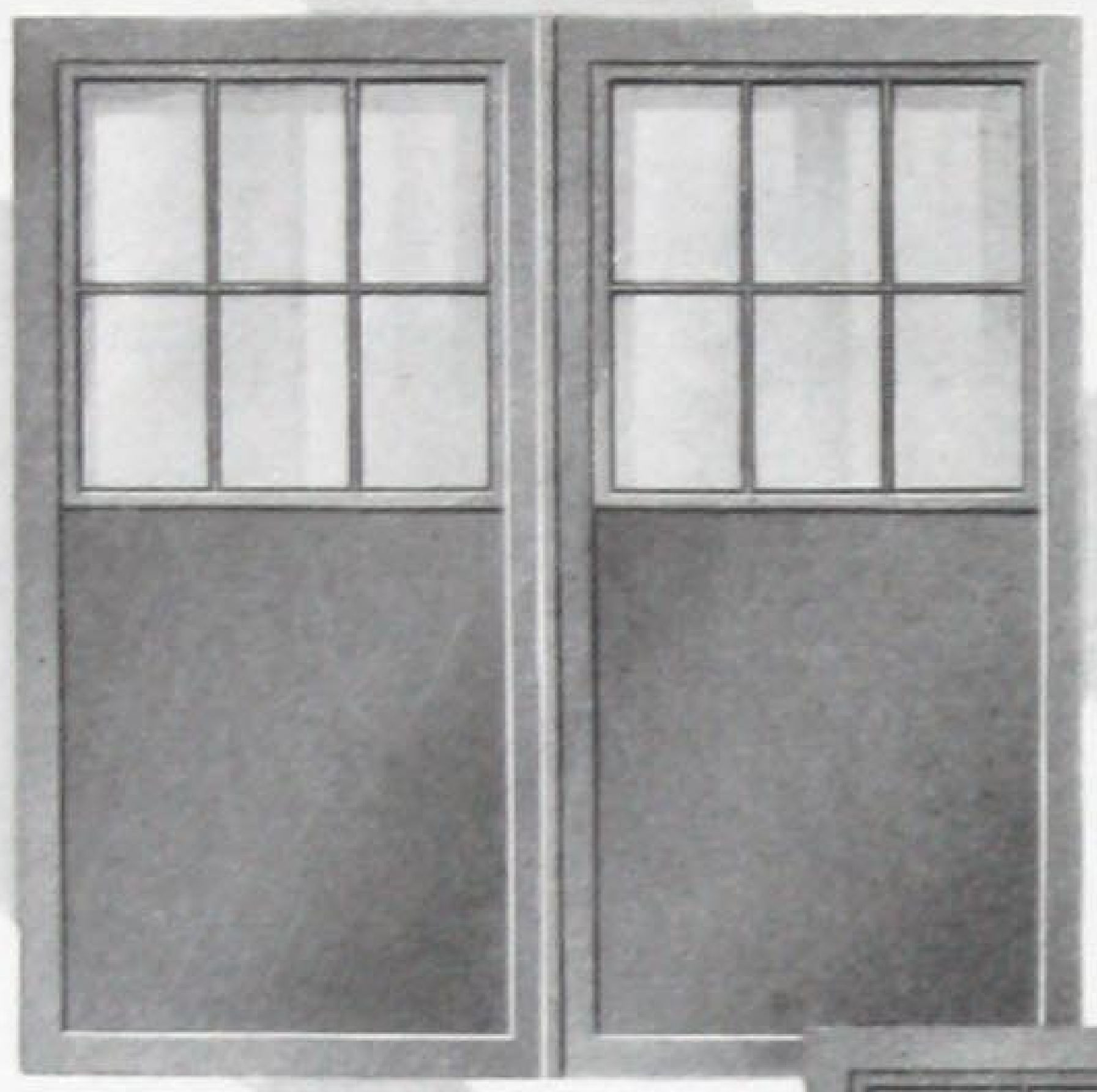
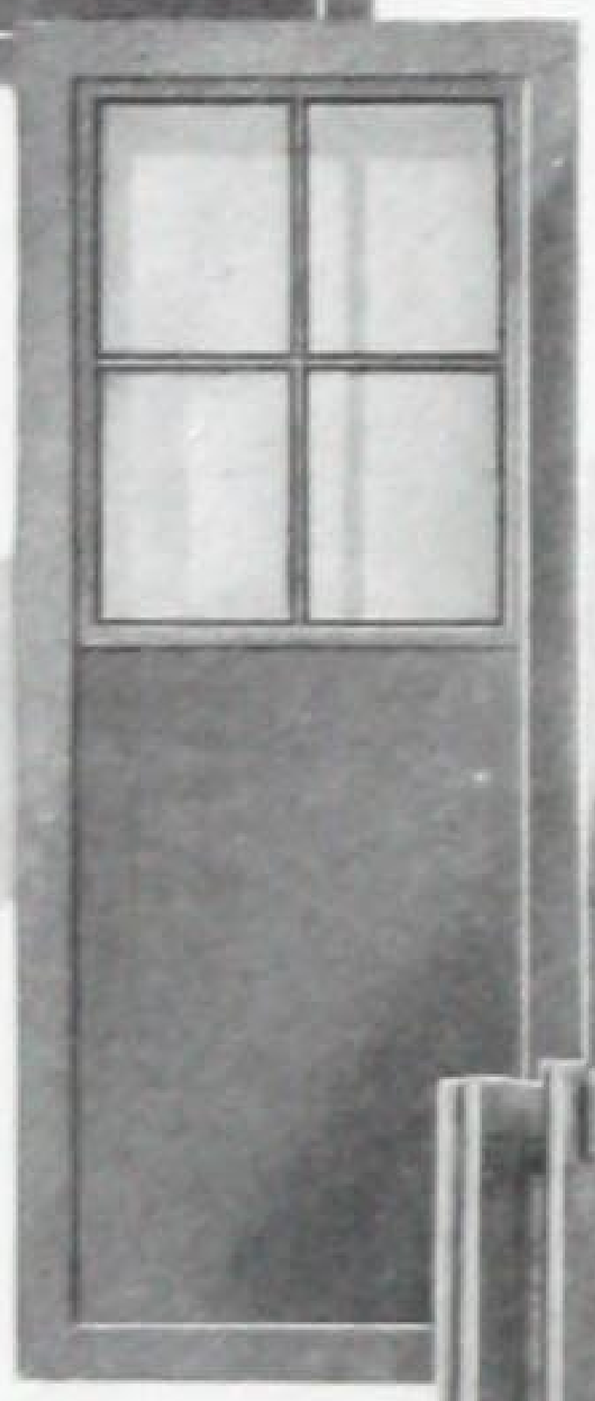
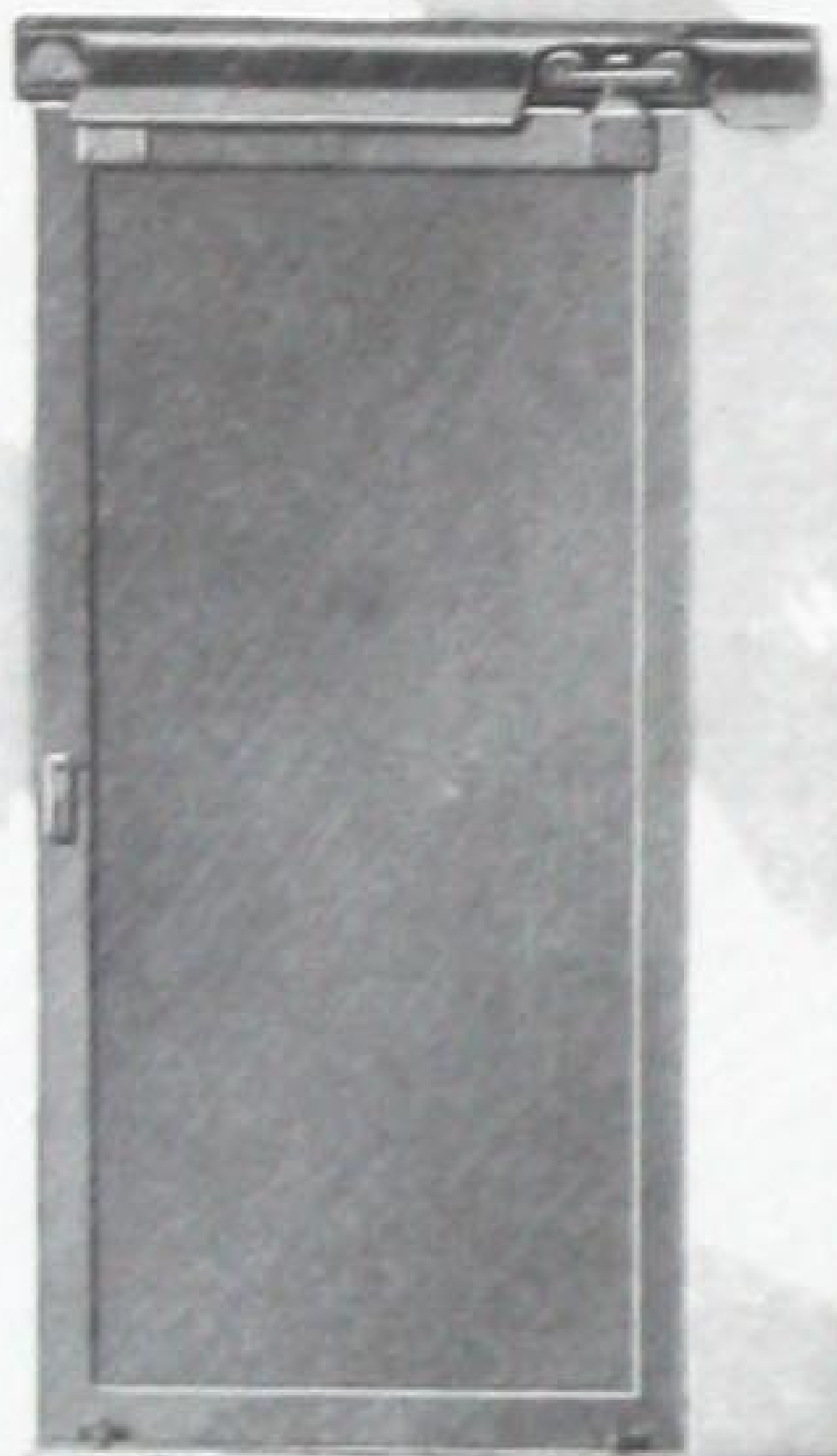


FIG. 1.







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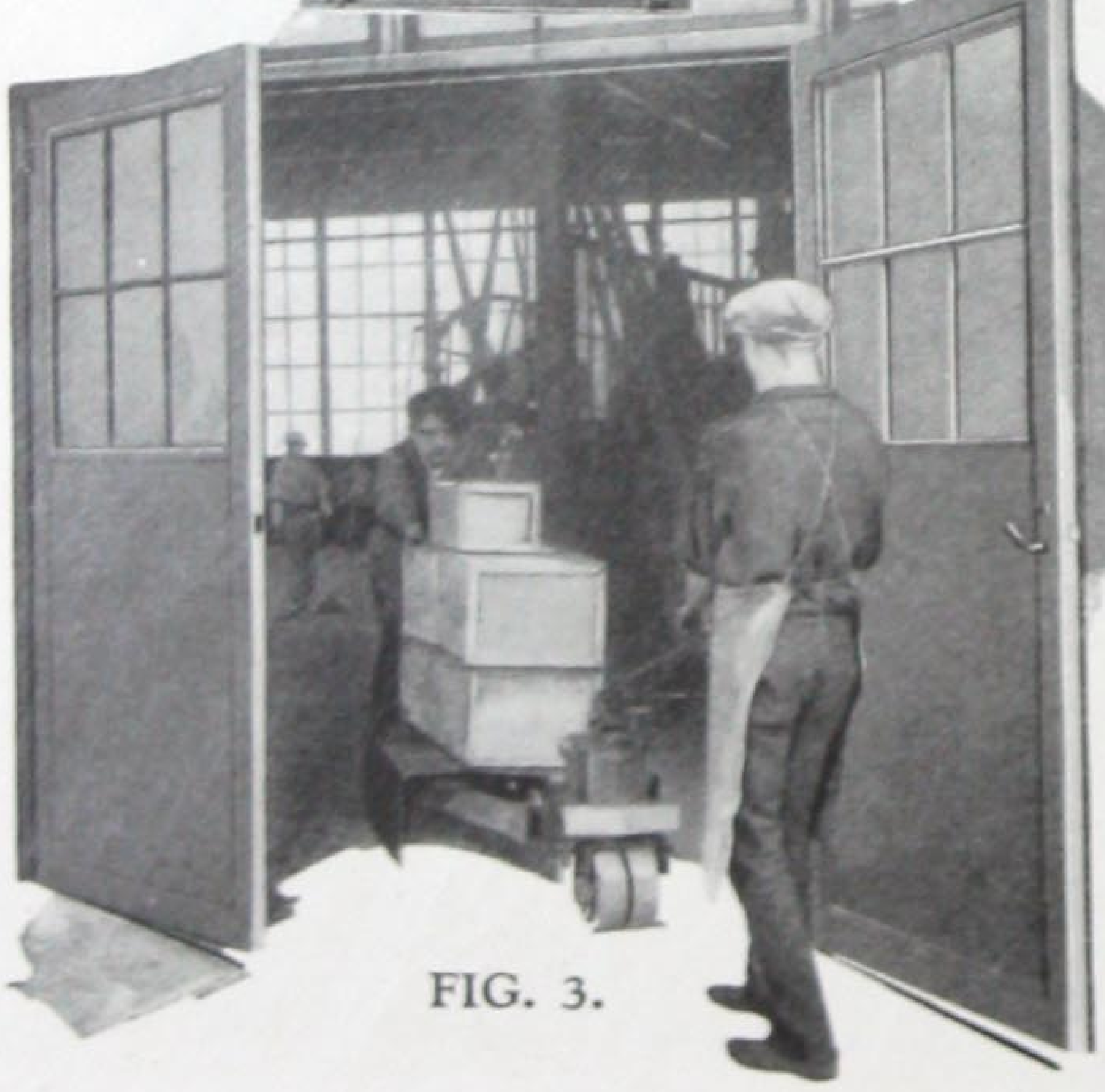
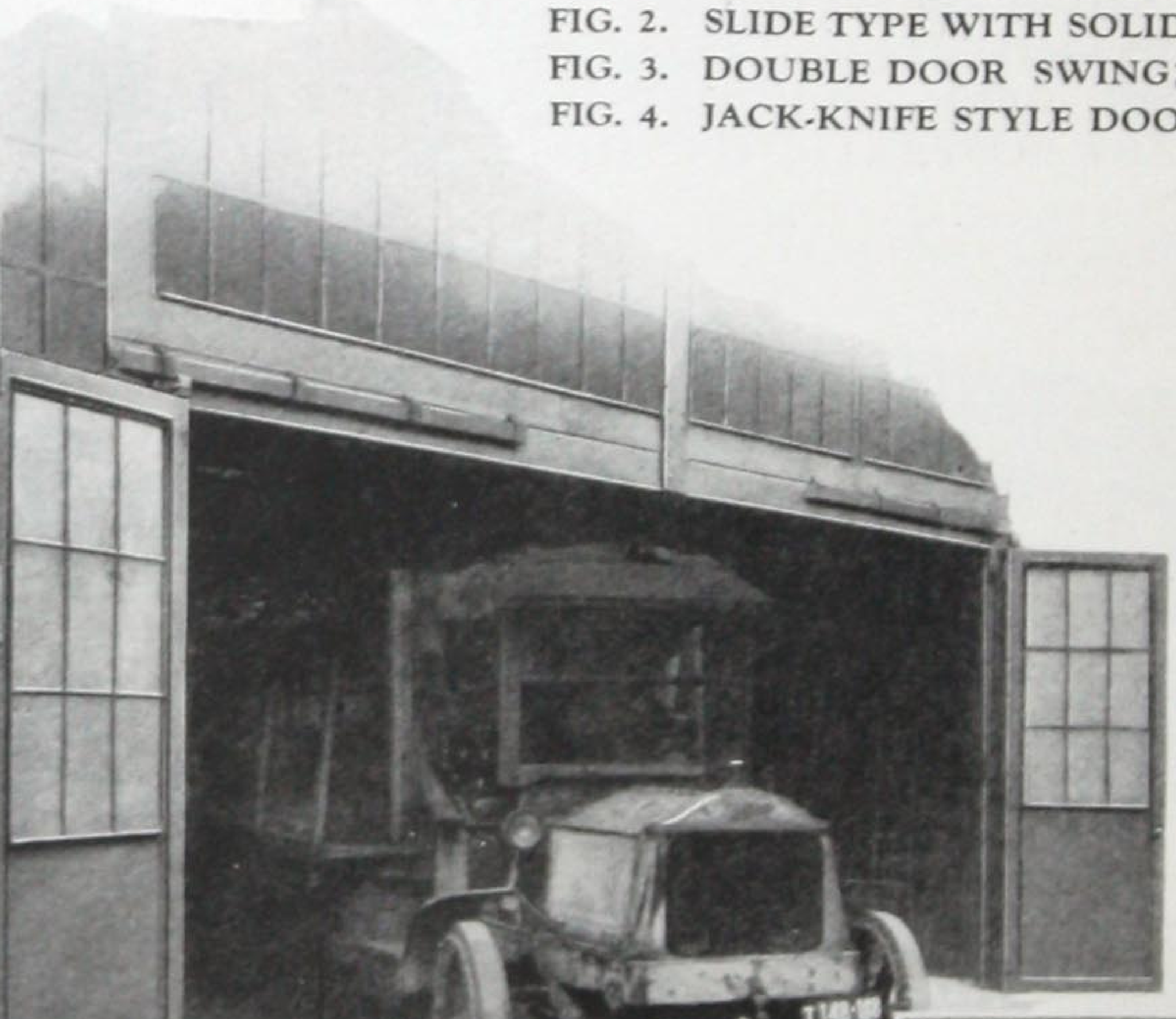


FIG. 3.



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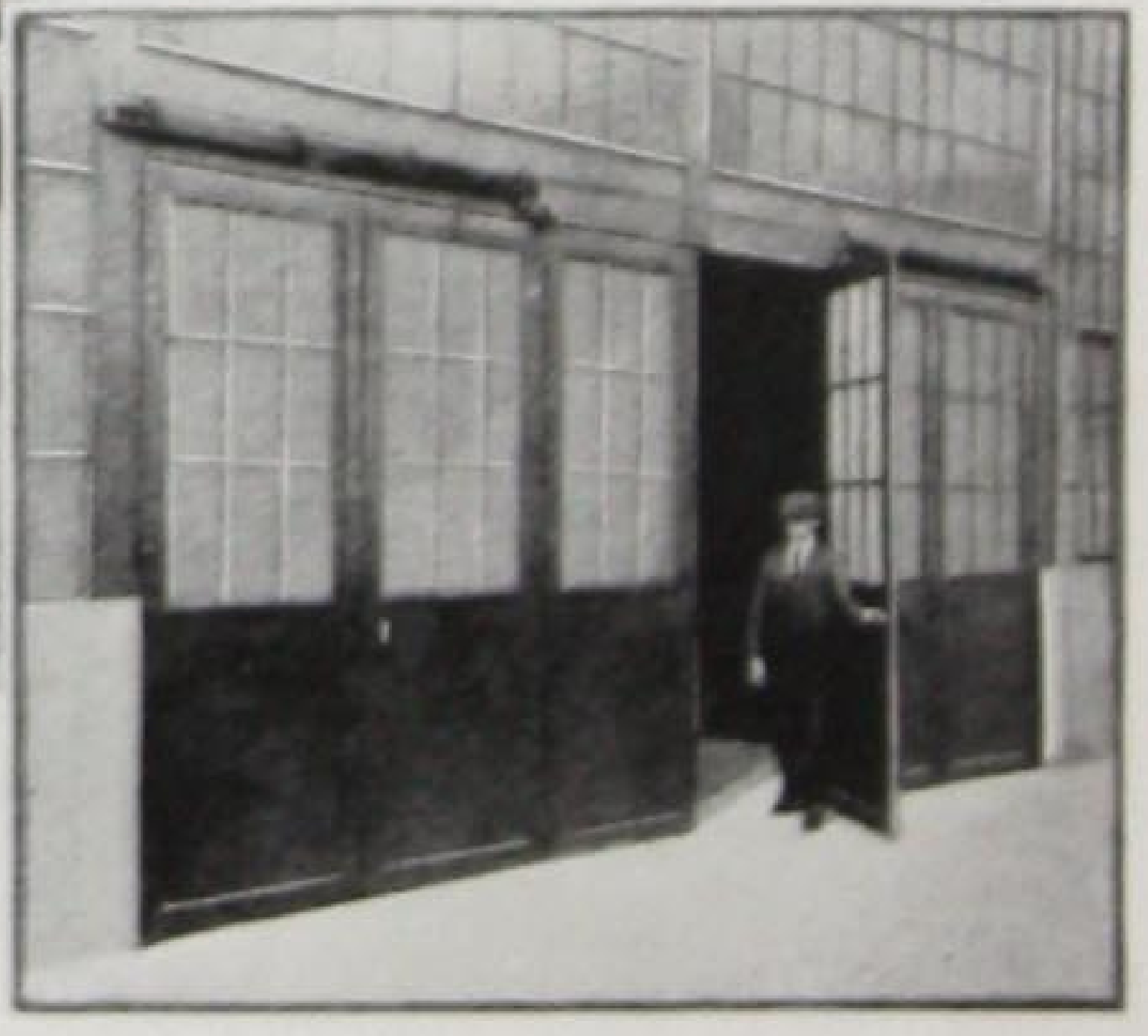


Seamless Tubular Doors

FOURFOLD TYPE

TRUSCON Seamless Tubular Rail Steel Doors, a fourfold type, were designed to successfully meet the extraordinary requirements of large openings. Exceptional strength is needed for this service. Their construction insures a rigidity, that vibration cannot impair, and they are built to be operated by one person. These doors are delivered equipt with suitable hardware.

Not only does this fourfold type steel door fold back, completely clearing the opening, but it stays open or shut as desired, regardless of strong winds.

The copper steel construction of Truscon Seamless Tubular Rail Doors resists rust and is unaffected by the corrosive influences of smoke and fumes.

Standardization develops notable economies in the production of Truscon Railroad Doors. They are sold at prices which make the use of any other type of door impracticable and expensive.

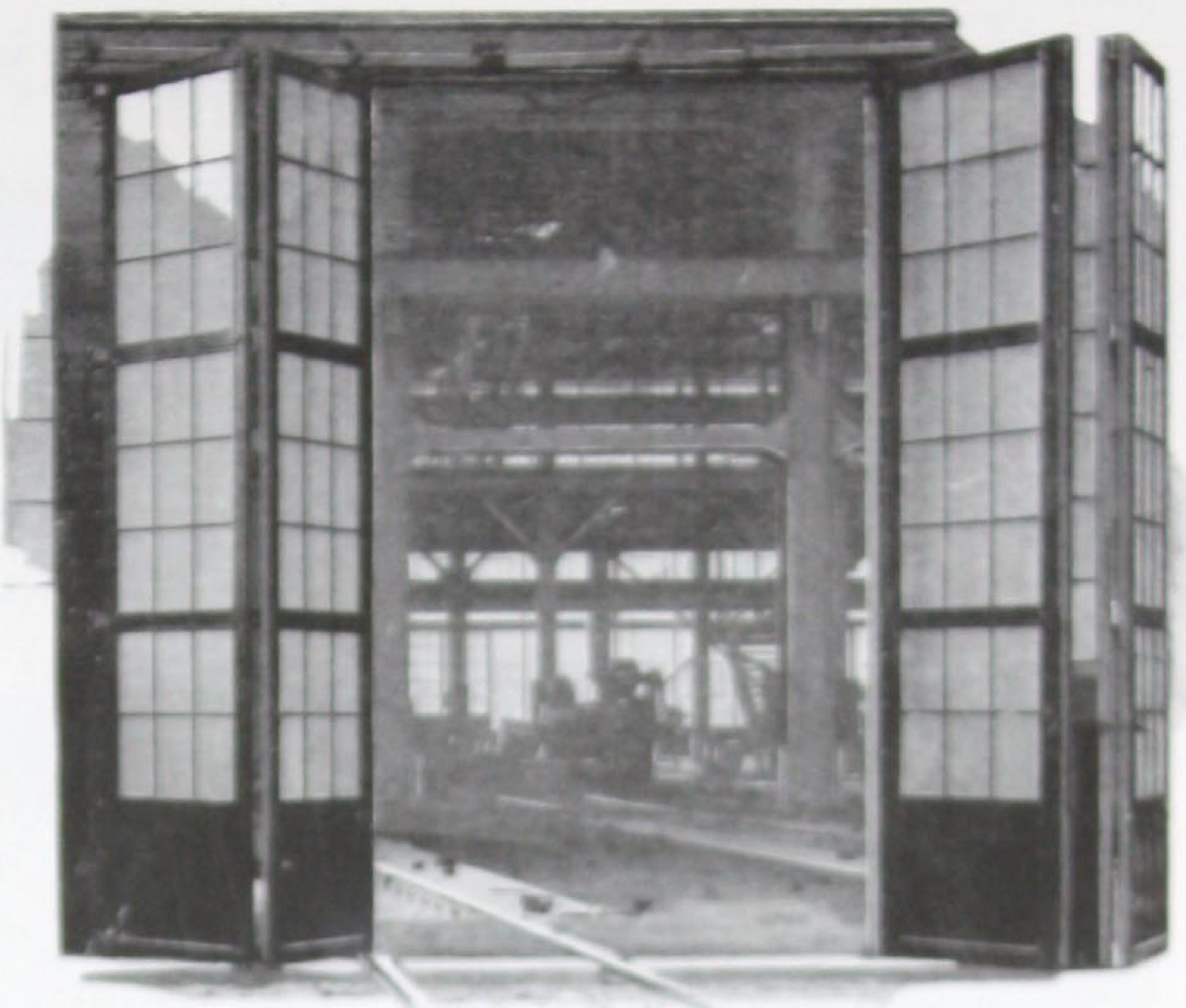


FIG. 1.

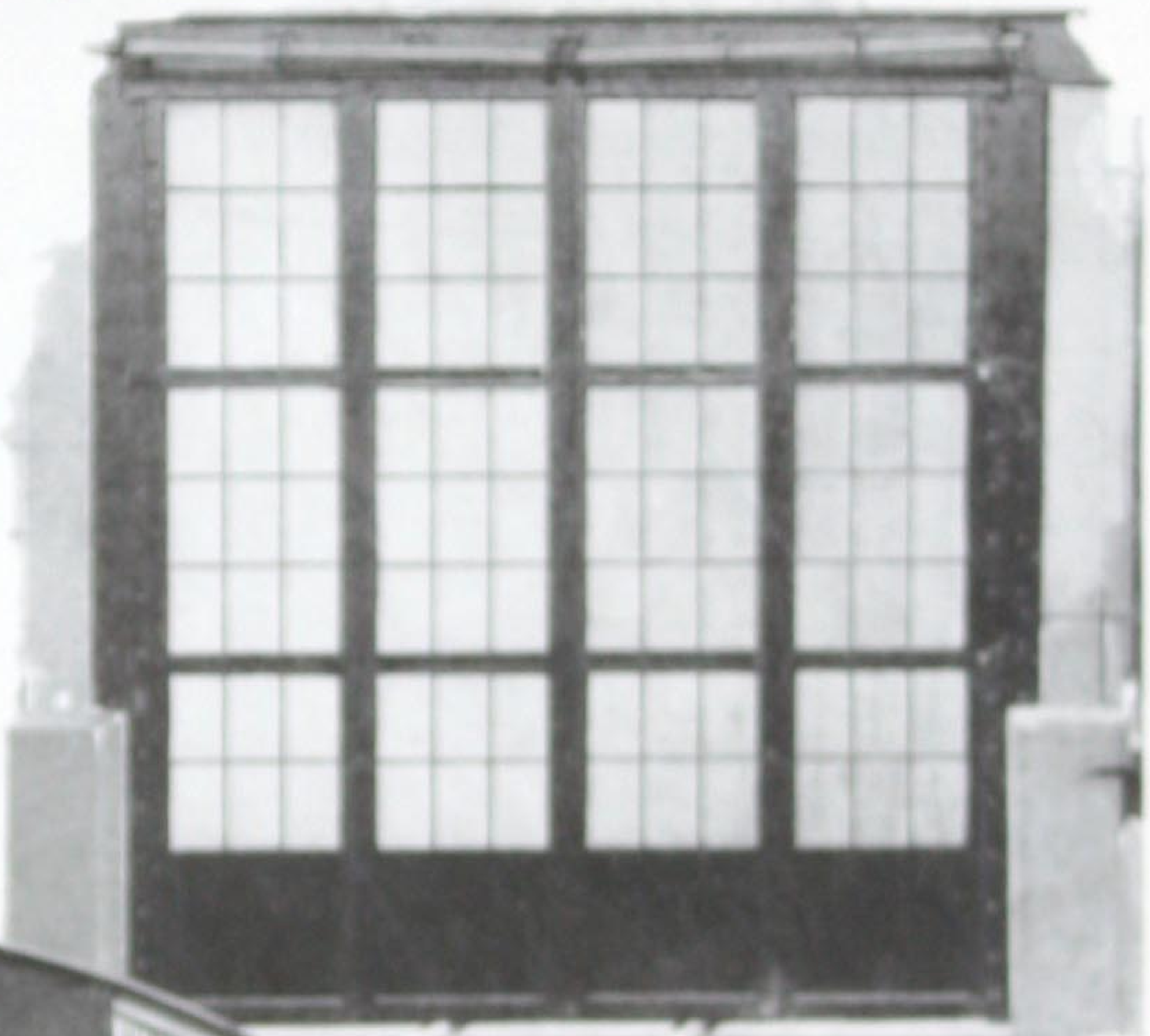


FIG. 2.

FIG. 1. A TRUSCON SEAMLESS TUBULAR DOOR STAYS OPEN OR SHUT AS DESIRED

FIG. 2. ACCURATELY FITTED DOORS WITH A LARGE GLASS AREA

FIG. 3. STRONG DOORS FOR LARGE OPENINGS IN A TRUSCON BUILDING OPERATED BY ONE MAN

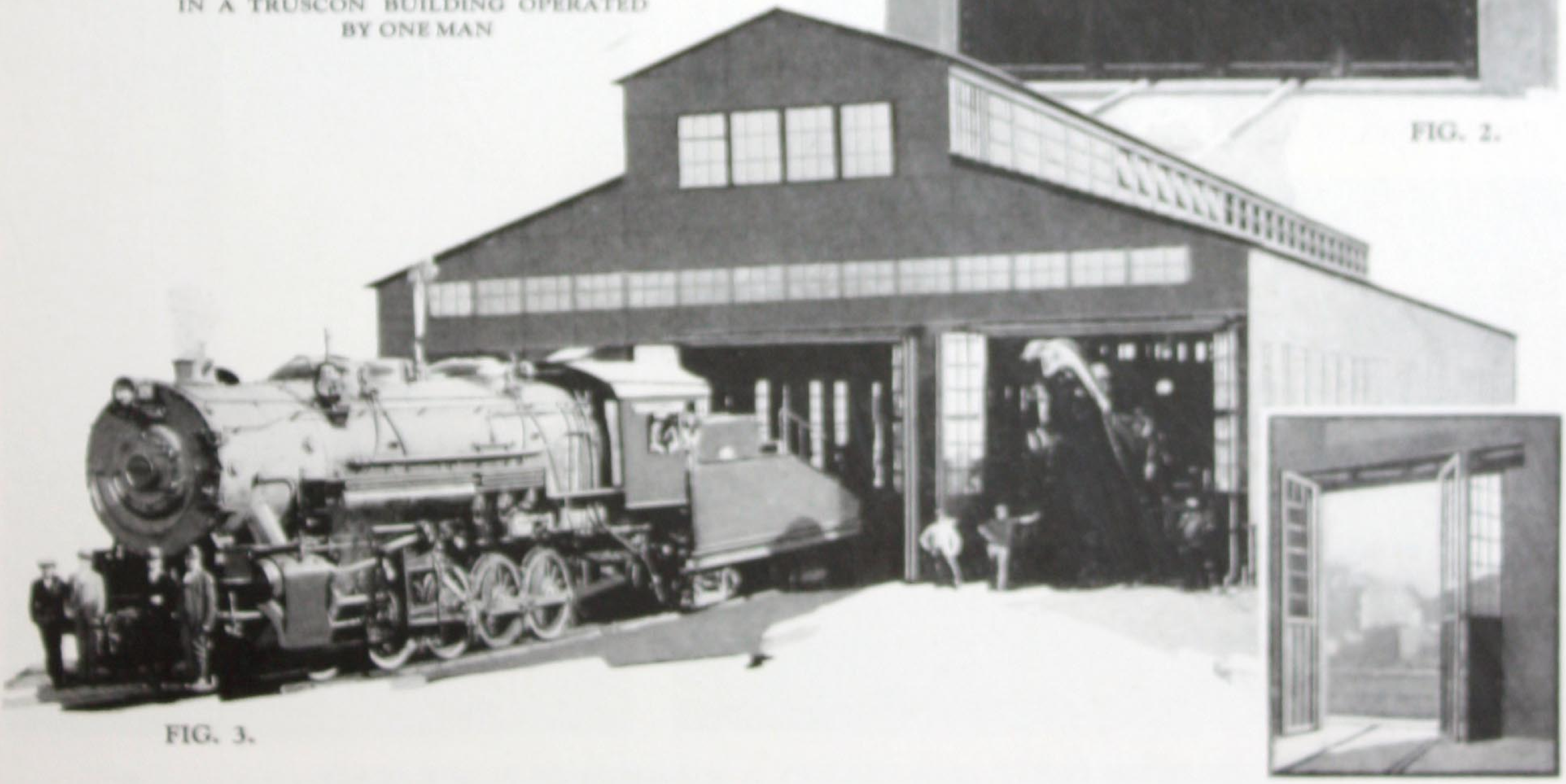


FIG. 3.

Partitions of Truscon Standard Stock Sash

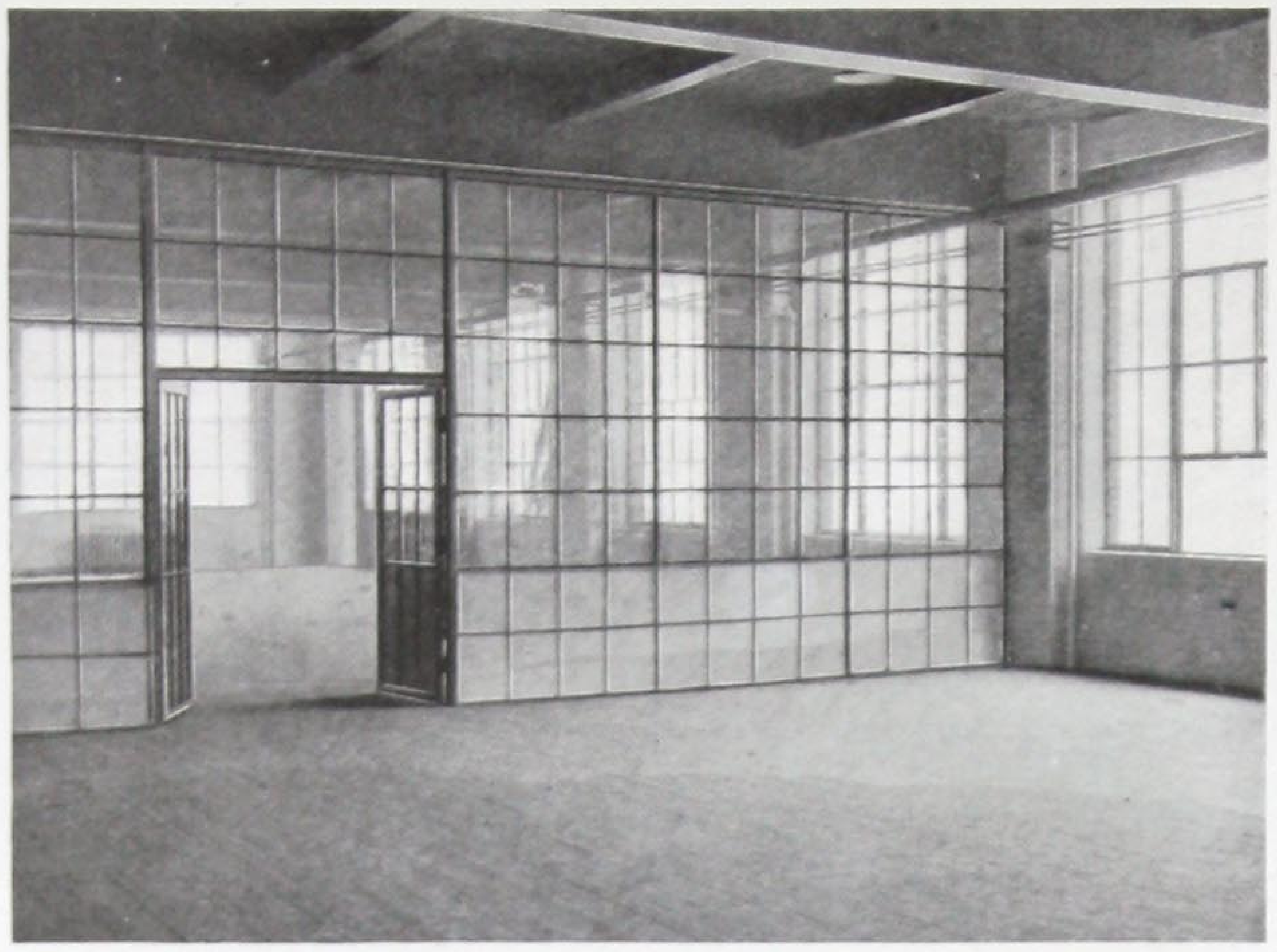
THE construction of partitions with Truscon Standard Stock Sash has many important advantages. As shown in the accompanying illustrations they make possible any desired combination of glass and steel panels.

The factory, the warehouse, the office can be quickly and inexpensively divided into light, airy rooms and passages with partitions that are serviceable, attractive, and occupy a minimum of floor space.

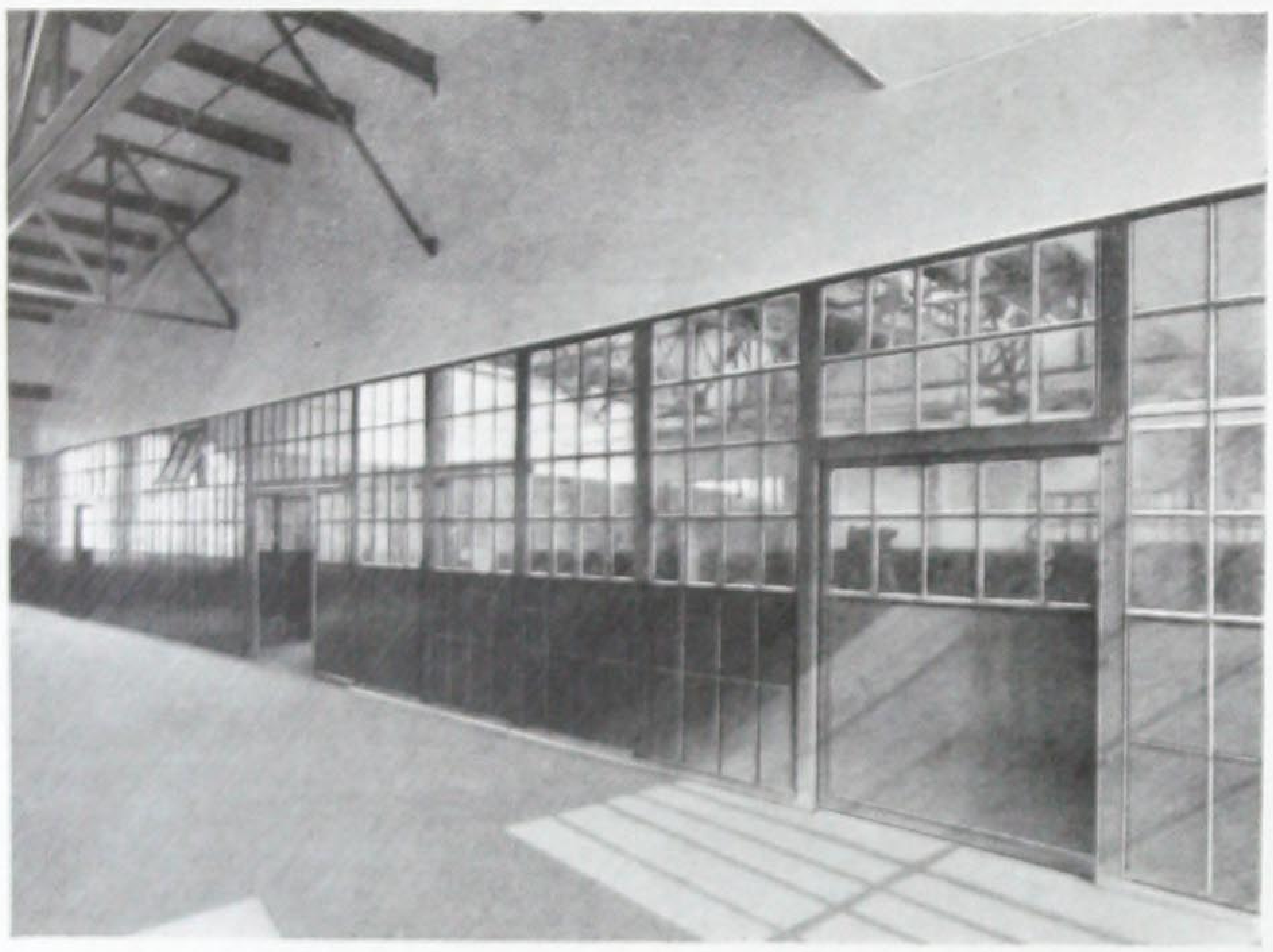
If carried to the ceiling they have a remarkable degree of soundproofness. When used in combination with pivoted steel windows they offer complete natural ventilation.

Still another advantage offered by Truscon Stock Sash partitions is their flexibility. Quickly erected, they are just as quickly taken down, moved and set up in a new position.

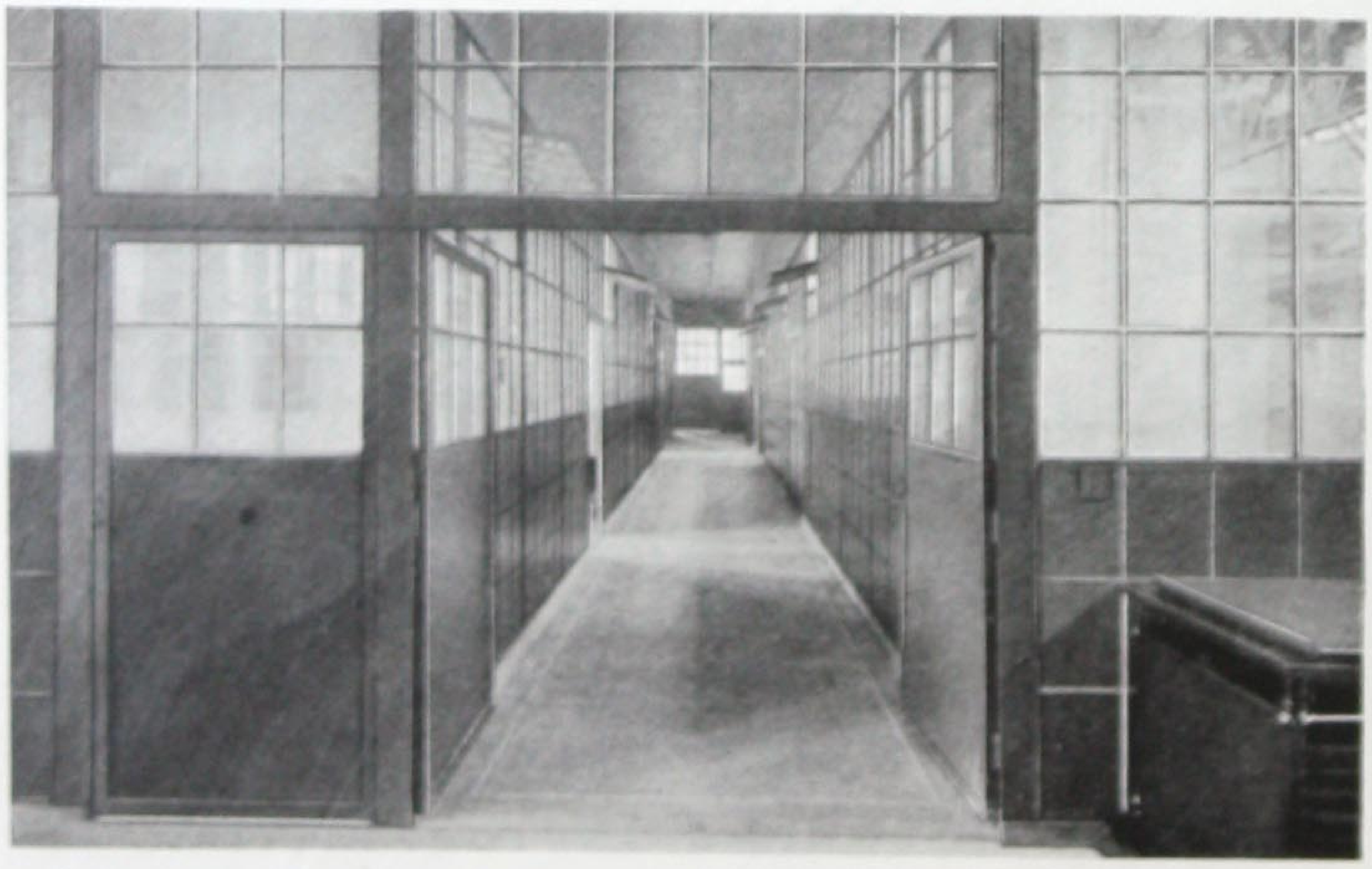
The entire layout of an office or warehouse can be completely changed on short notice and with a minimum of expense. And the partitions remain entirely permanent—strong, rigid and economical.

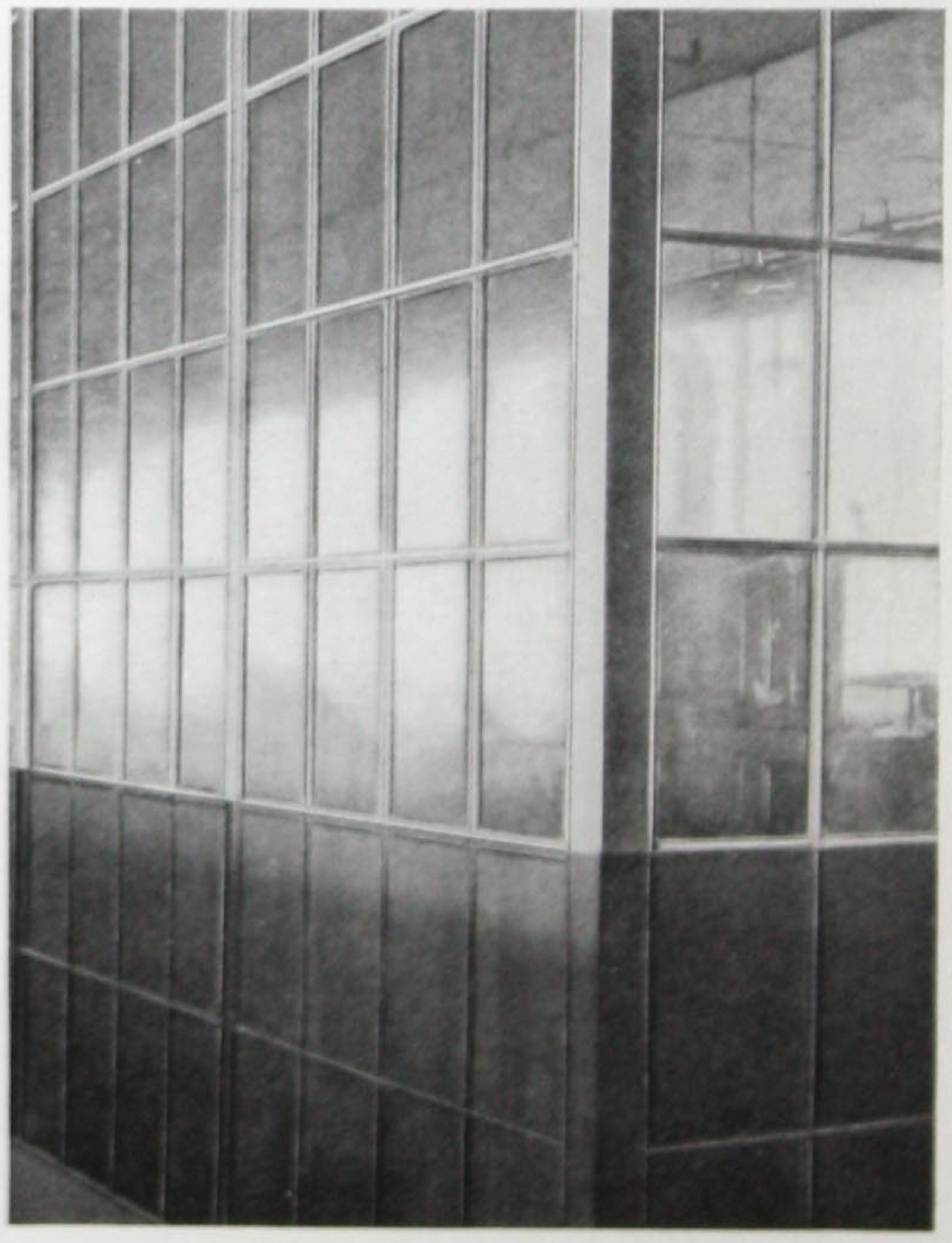


DAYLIGHT PARTITIONS



PARTITIONS OF SASH AND REINFORCED PLASTER





TRUSCON PARTITIONS OCCUPY A MINIMUM OF FLOOR SPACE

Reinforced Partitions and Walls

EASILY FITTED AROUND OBSTRUCTIONS

TRUSCON manufactures a complete line of steel reinforcing material for plastered partitions and walls.

Truscon 1-A Metal Lath (Fig. 2) is a perfect plaster base that insures firesafe, crackless partitions and walls.

Both Hy-Rib (Fig. 1) and Diamond Lath (Fig. 3) are used for erecting inexpensive hollow partitions (Fig. 5).

Truscon Channels (Figs. 6 and 7) in standard sizes that have a wide application (Fig. 4).

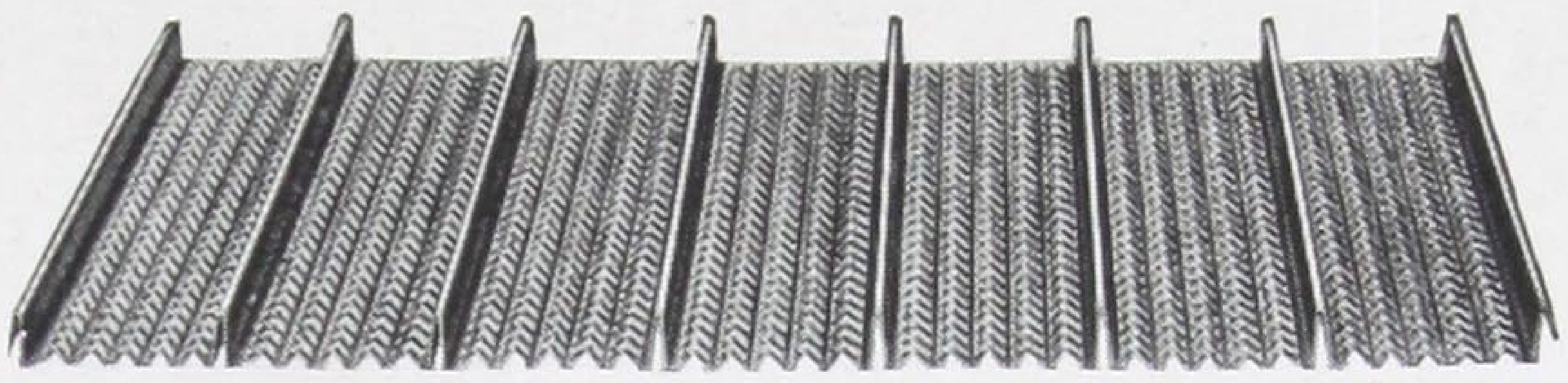


FIG. 1. TRUSCON $3/8$" HY-RIB

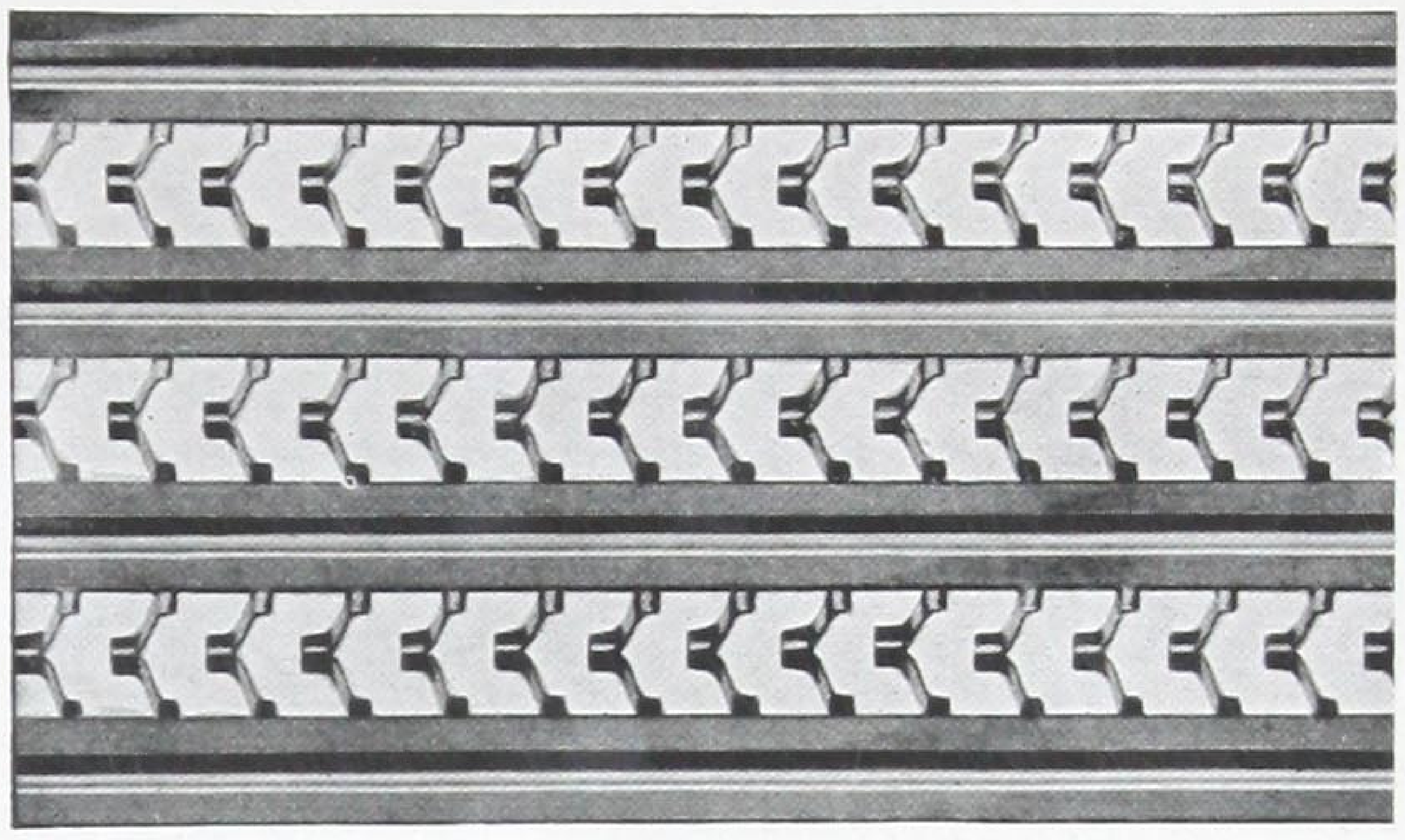


FIG. 2. TRUSCON 1-A METAL LATH

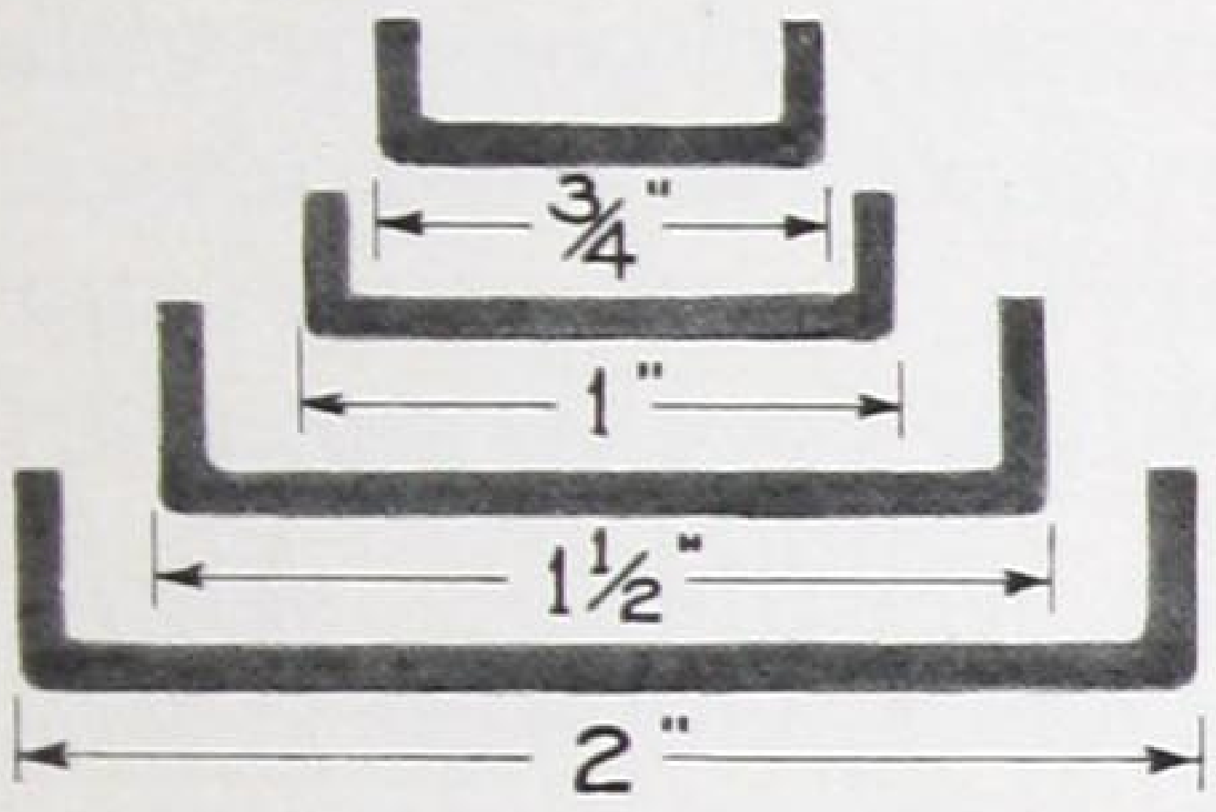


FIG. 7. COLD ROLLED CHANNELS

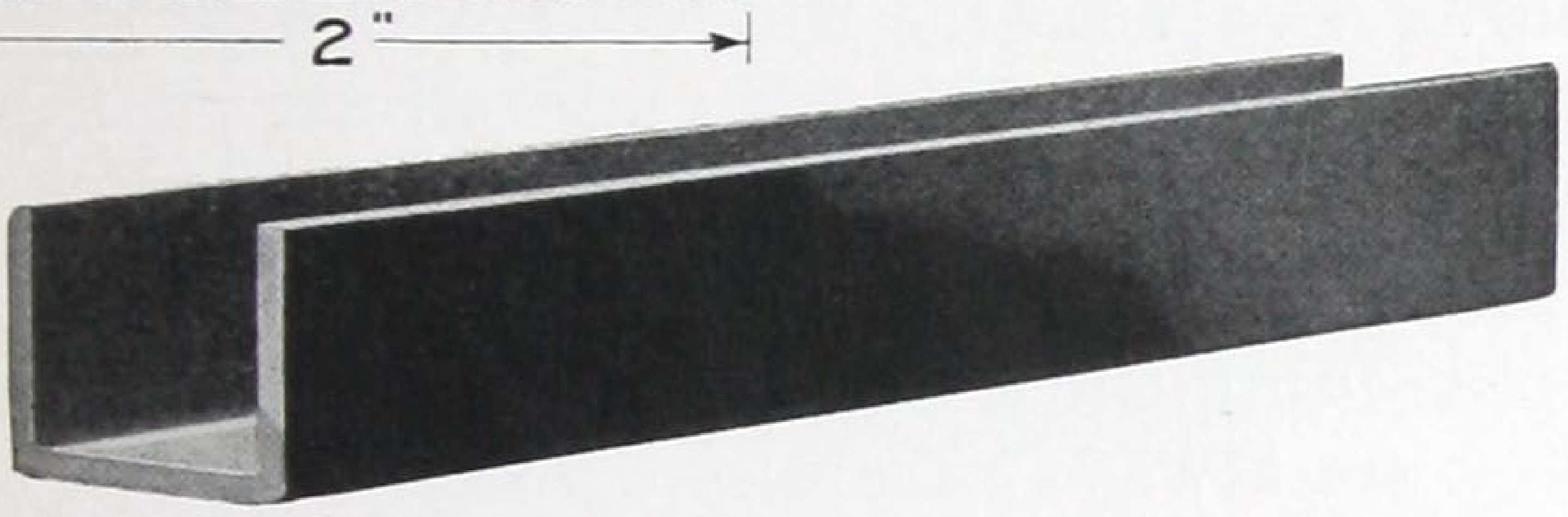


FIG. 6. TRUSCON SQUARE CHANNELS

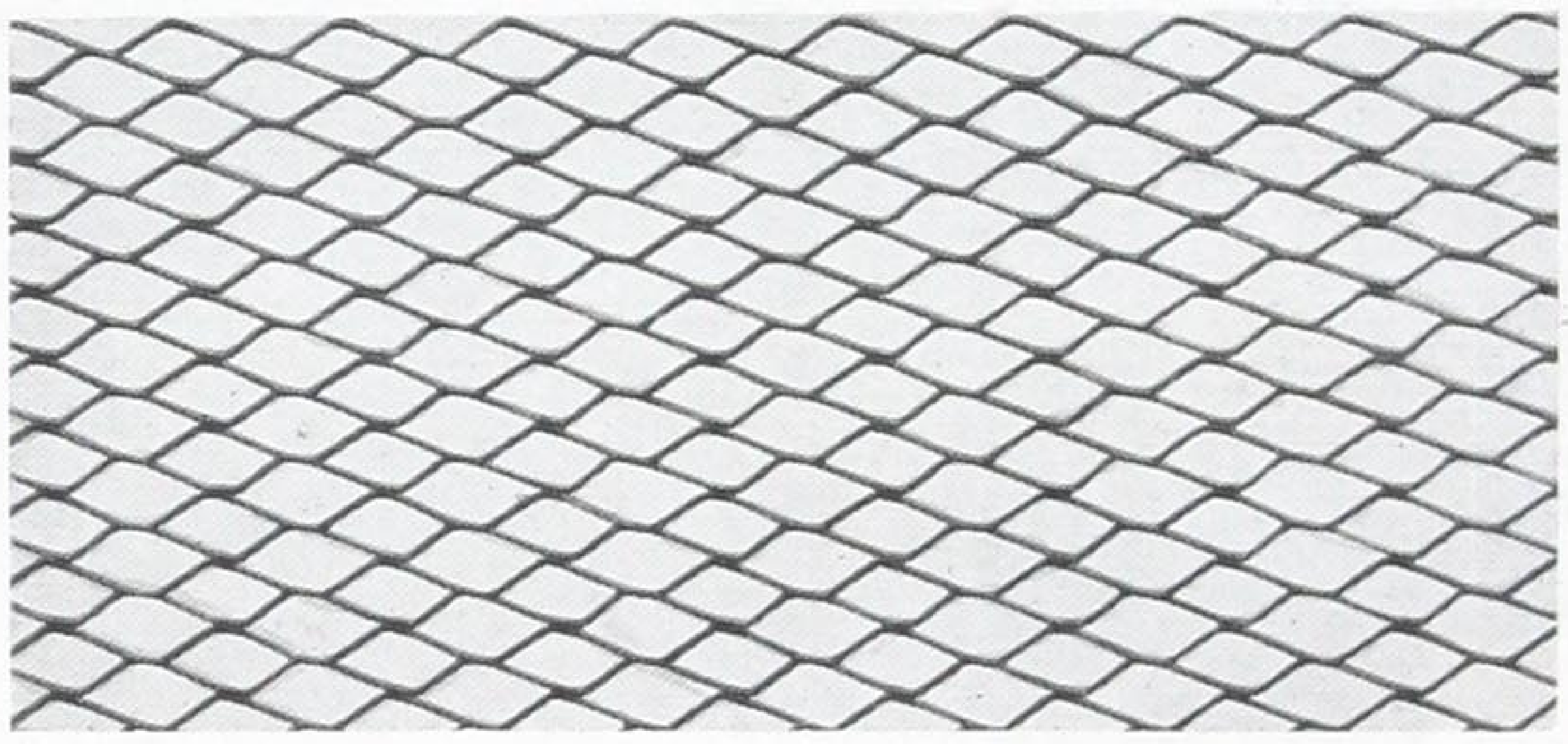


FIG. 3. TRUSCON DIAMOND LATH

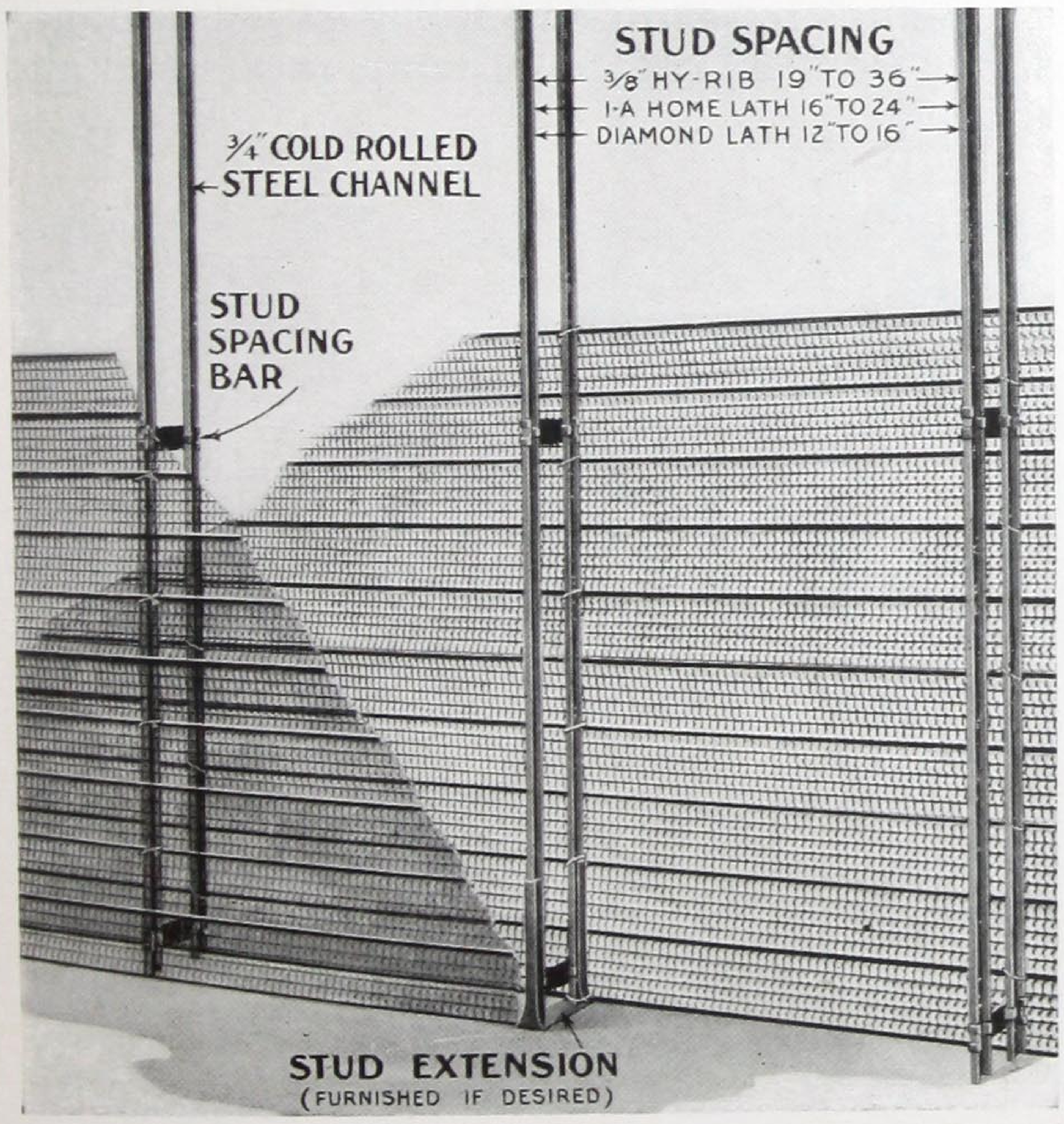


FIG. 5. HOLLOW HY-RIB PARTITION

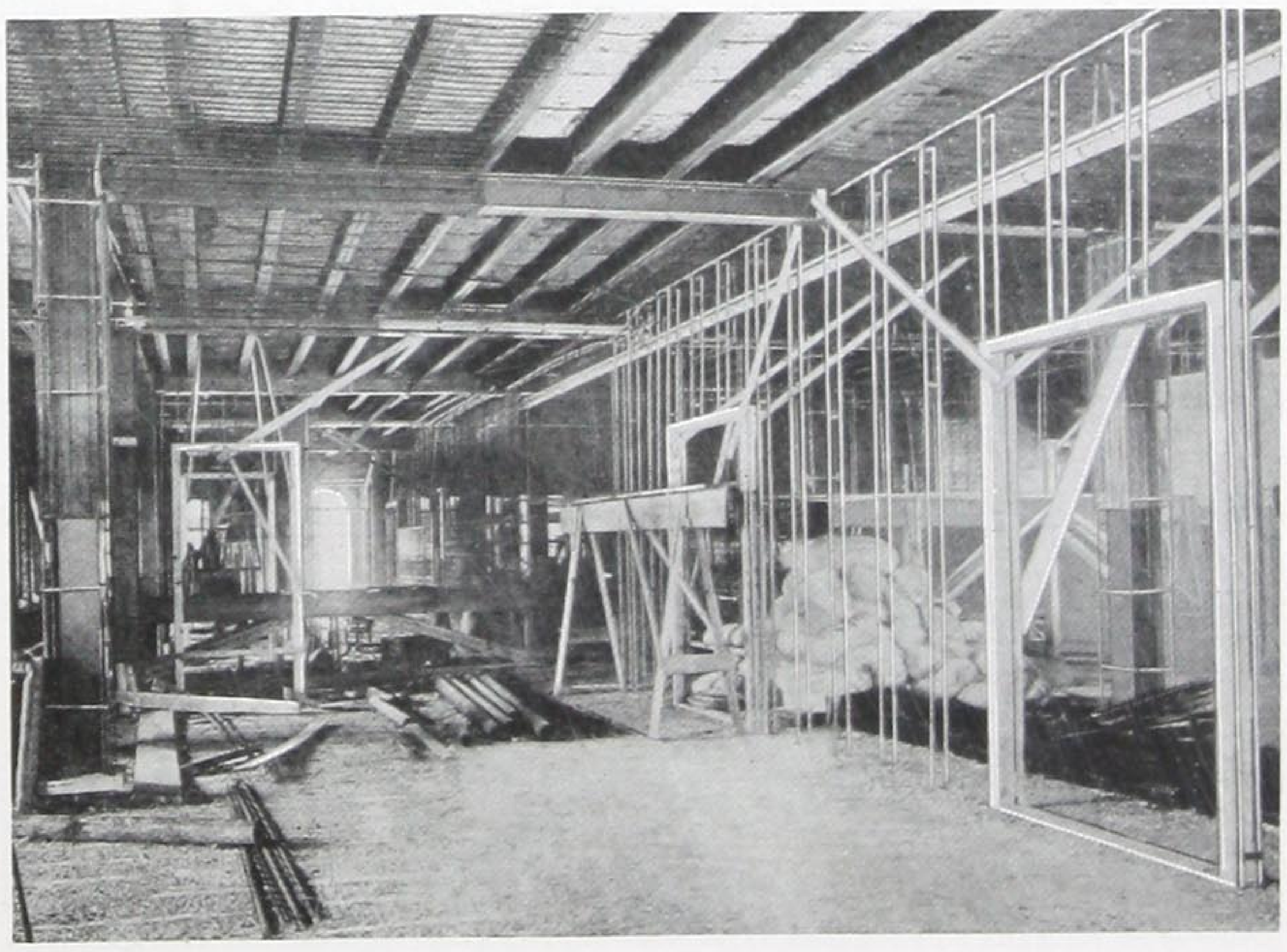
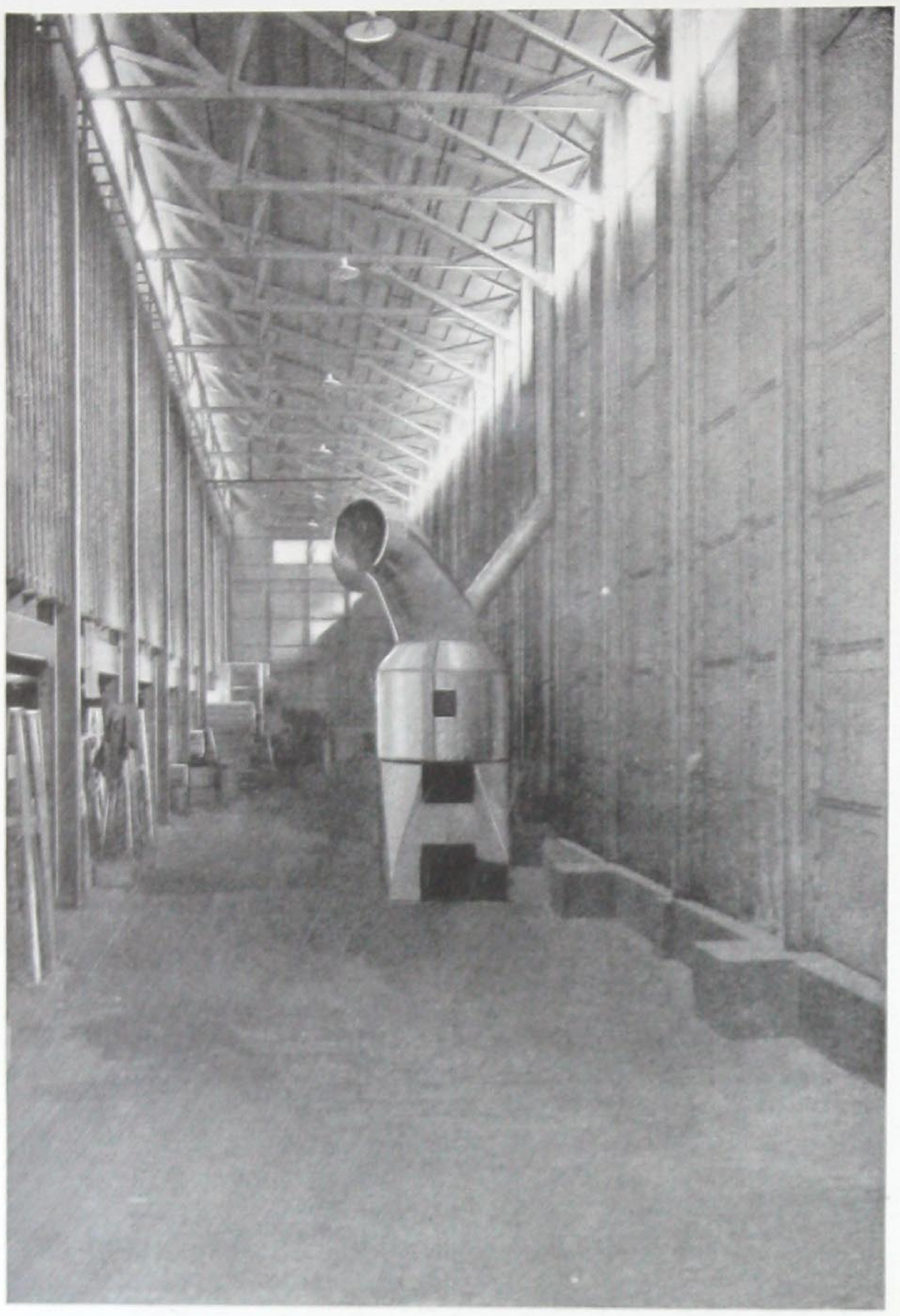


FIG. 4. SQUARE CHANNELS AS STUDS

Heating and Ventilating Truscon Buildings



STANDARD heating practices for Truscon Buildings favor localized unit systems. These systems have proven most efficient in producing a uniformly comfortable working environment, and their operation and maintenance is most economical. The installation costs are conspicuously less than any other practical system.

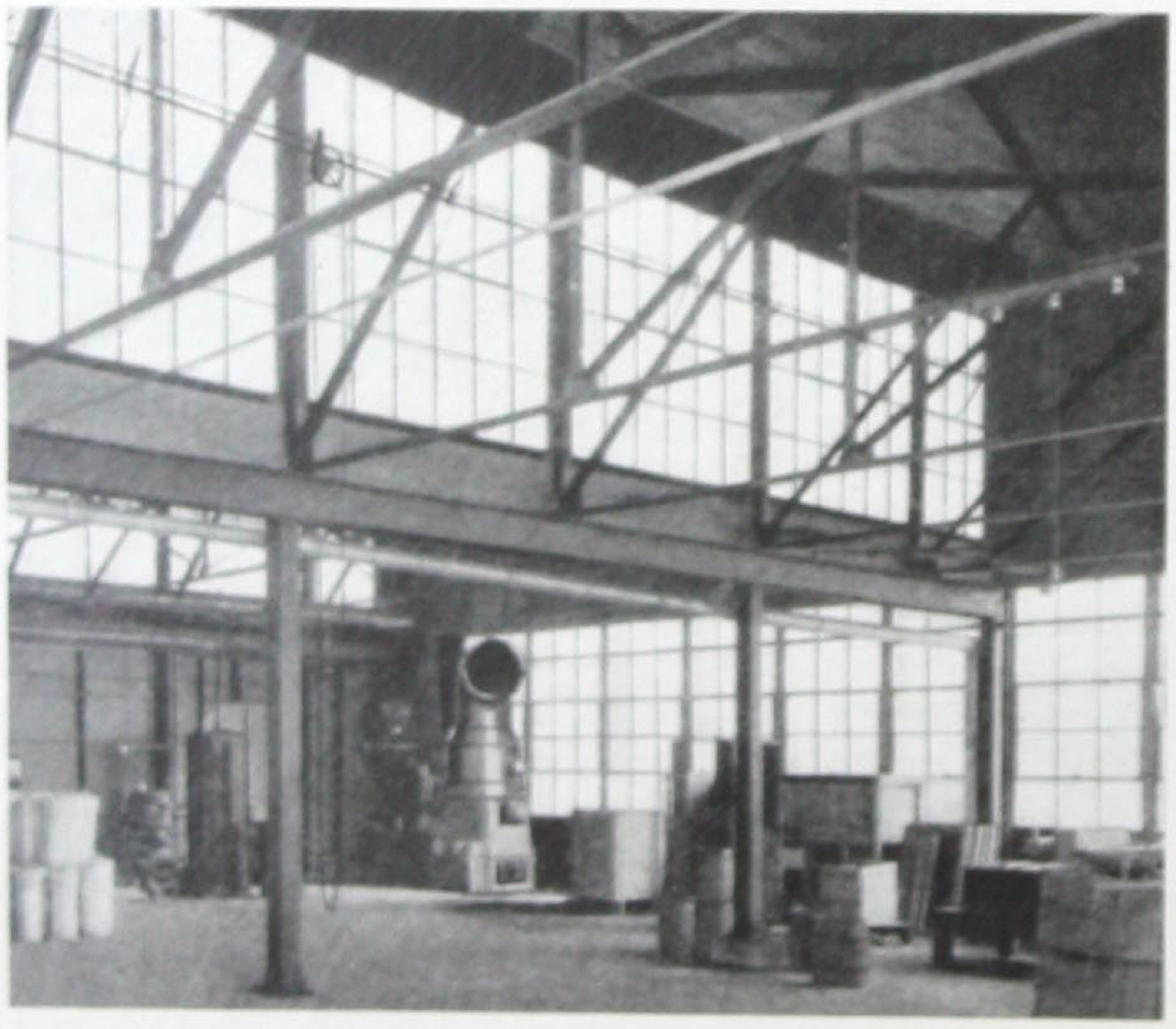
Of course, Truscon does not furnish heating units, but Truscon experience can prove of value in laying before you the conclusions of many owners of Truscon Buildings.

The weathertight construction of Truscon Buildings is in itself an item of considerable importance in keeping down heating costs. Roof insulation conserves heat in winter besides making the building cool in summer.

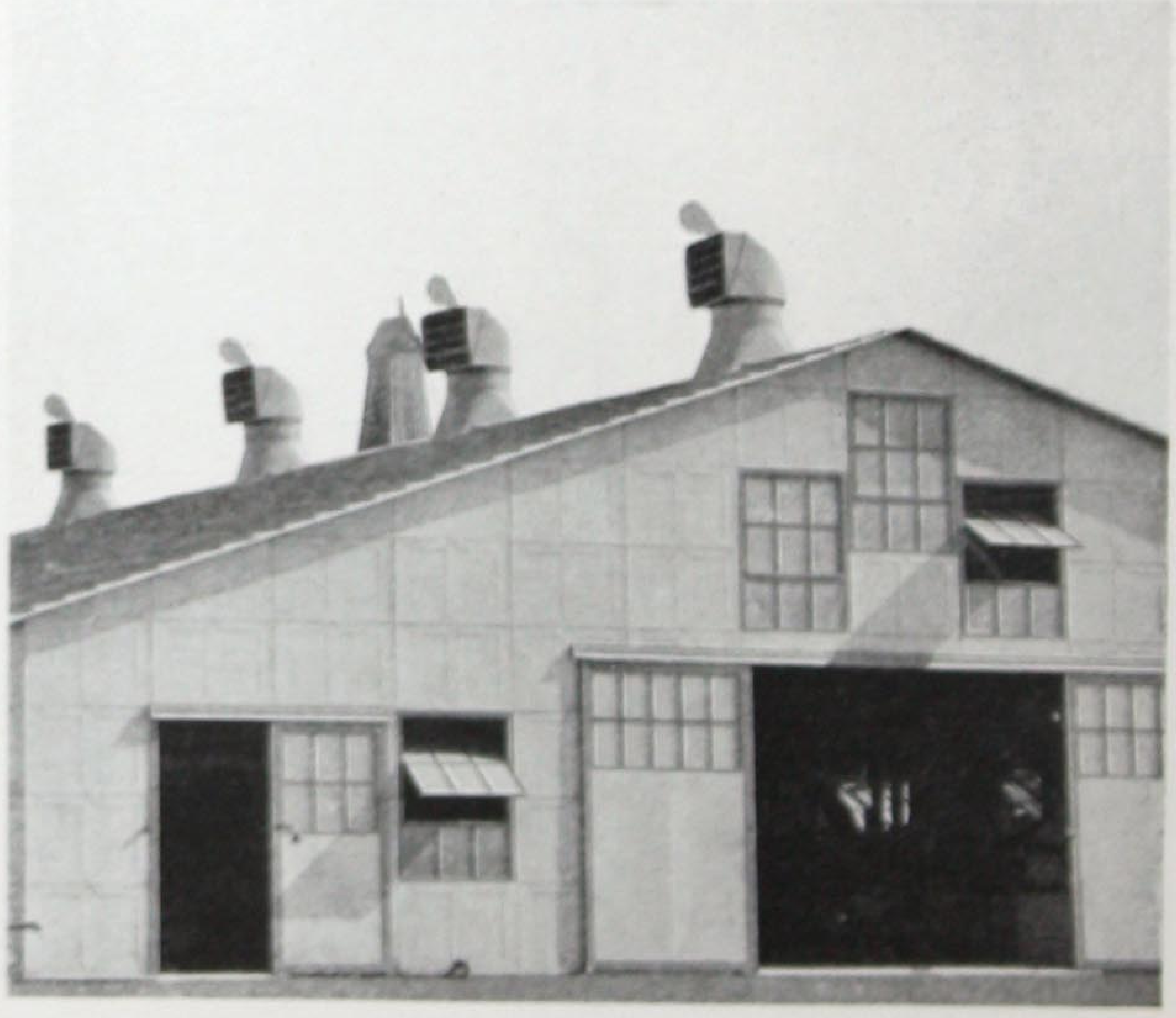
The semi-mechanical ventilator, shown below, revolves with the wind, which produces a continuous suction for maintaining a proper change of air.

Heat and ventilation are major factors in determining the design of a Truscon Building. They are always carefully considered.

Special conditions are closely studied so that the completed structure fulfills every demand for economical control of temperature and air movement.



HEATER IN PLACE WITHOUT OBSTRUCTING FLOOR



VENTILATORS SWING FREELY WITH THE WIND

Natural Ventilation Completely Controlled

NATURAL ventilation is now a recognized free aid to industry. Full value is secured only through proper control.

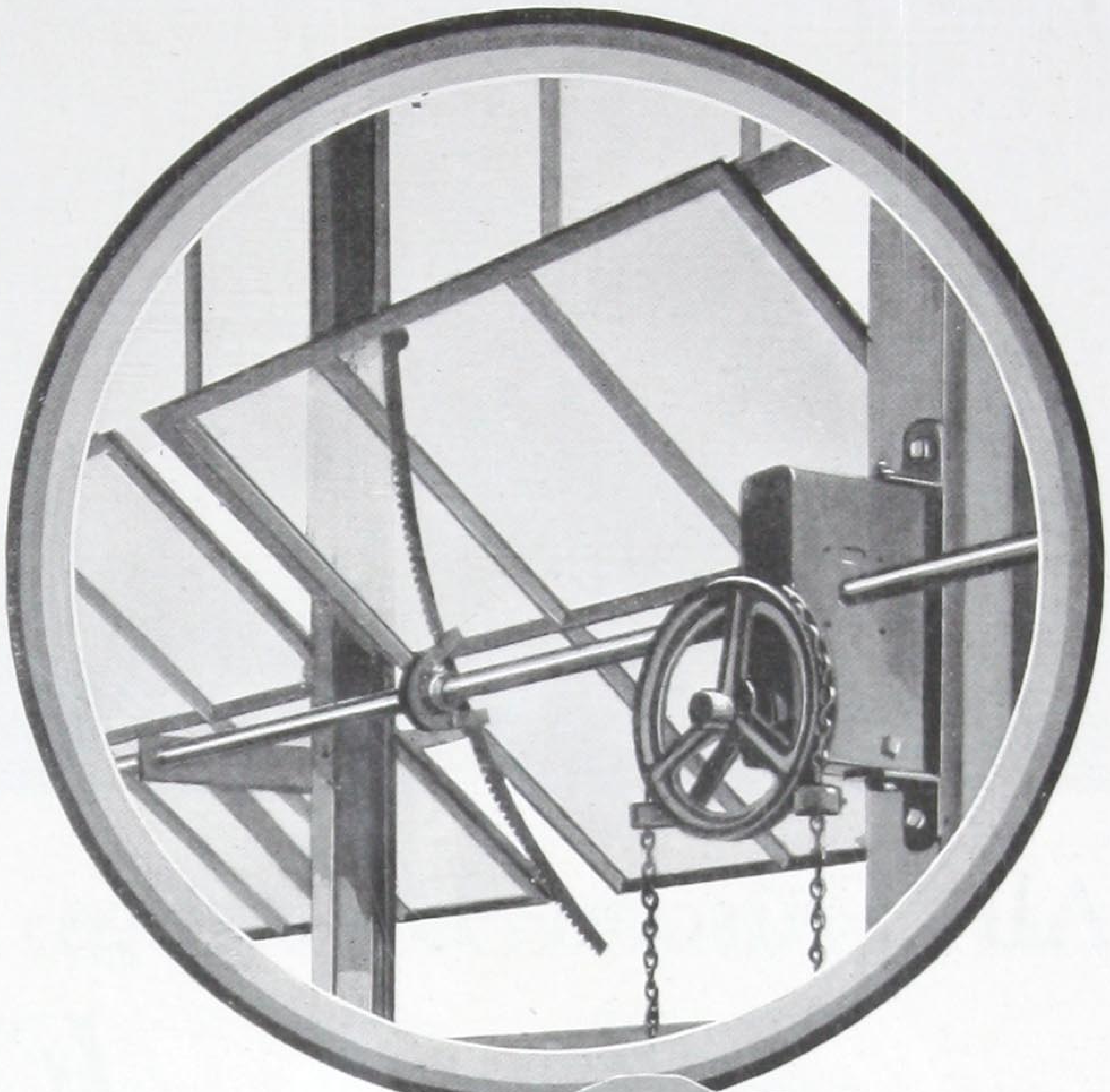
For mechanically controlling the operation of runs of sash, as units or as groups, Truscon builds a complete line of operators. These are designed for manual and electrical operation or thermostatic control.

By the use of Truscon operators, the regulation of natural ventilation is centralized, responsibility for it becomes fixed, and the working environment is greatly improved.

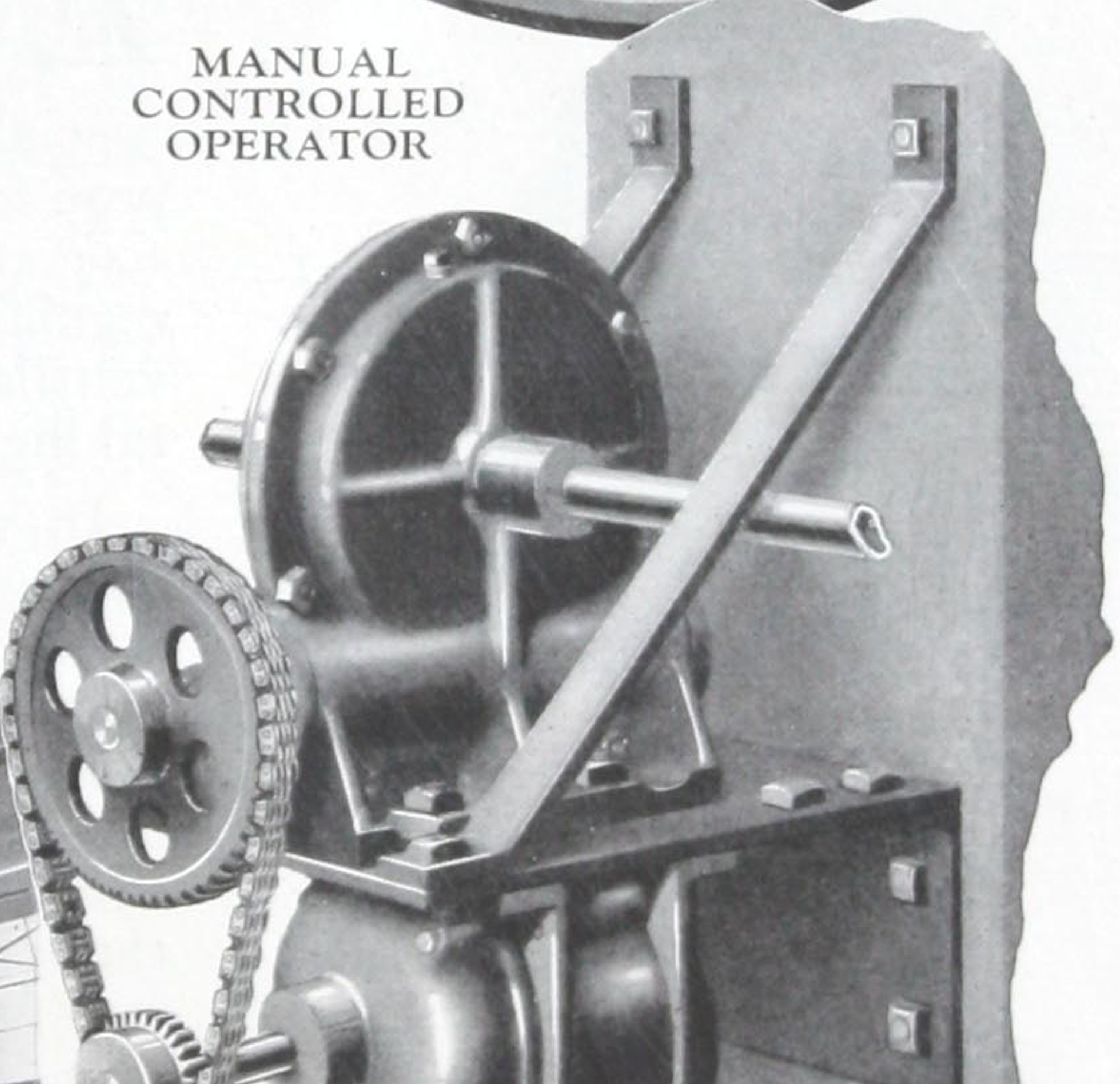
A pull on a chain or touch of the button instantly opens or closes long runs of steel windows. Any desired control of ventilation can be obtained. When quick changes of air are necessary all the windows may be opened by one operation.

Truscon Mechanical Operators are so designed that any requirement, however special, can be effectively and economically met. Many large installations the country over stand as ready proof of their outstanding quality and absolute dependability.

It is impossible to suggest here more than a few of the many possible applications. Regardless of the nature of your daylighting problem, however, there is none too difficult for Truscon Engineers.



MANUAL CONTROLLED OPERATOR



TRUSCON MECHANICAL OPERATOR INSTALLATION

Motored Operators for Centralized Control

TO OPERATE successfully runs of sash a proper arrangement is designed by Truscon daylighting and ventilating engineers. A choice of types of motorized operators for short and long runs of sash is available to meet any practical need.

All Truscon Buildings Are Carefully Planned

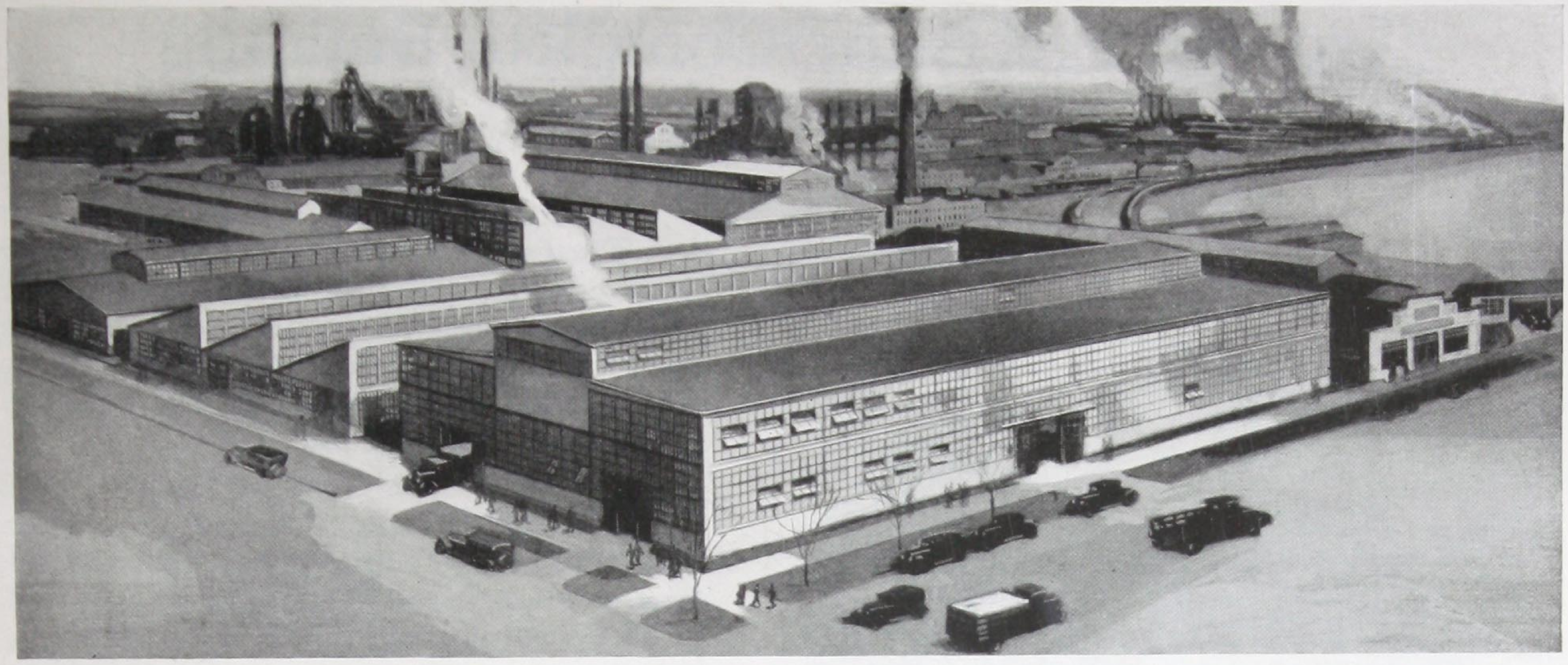
C. I. AUTEN
Manager of Planning and Marketing Division

F. W. CUMMER
Executive Detail and Estimating Division

EVERY element of your particular housing problem is carefully established in preliminary discussions with Truscon specialists in steel building design. The purpose for which the building is to be used, the size and location of the site, local building regulations, climatic conditions, daylighting, ventilation and many other factors are painstakingly considered.

In many cases Truscon has already produced buildings for the purpose you have in mind. It is sometimes necessary to study the details of such installations and adapt their features to your structure. On the other hand the projected building may be entirely unique—so different in every characteristic that no example exists to which reference may be made.

Truscon's success in such instances has been no less consistent than in the solution of less difficult problems. For Truscon has been the pioneer in every field of steel building design. The creation of plans for the building that will fit exactly the purpose you wish to apply it to is, from first to last, in the hands of an engineering organization that boasts a quarter-century record of unchallenged leadership.



Fabricated and Erected to Conform to the Plan

THE work of translating the approved plan into a finished structure ready for occupancy is personally supervised by men thoroughly familiar with every feature of the transaction.

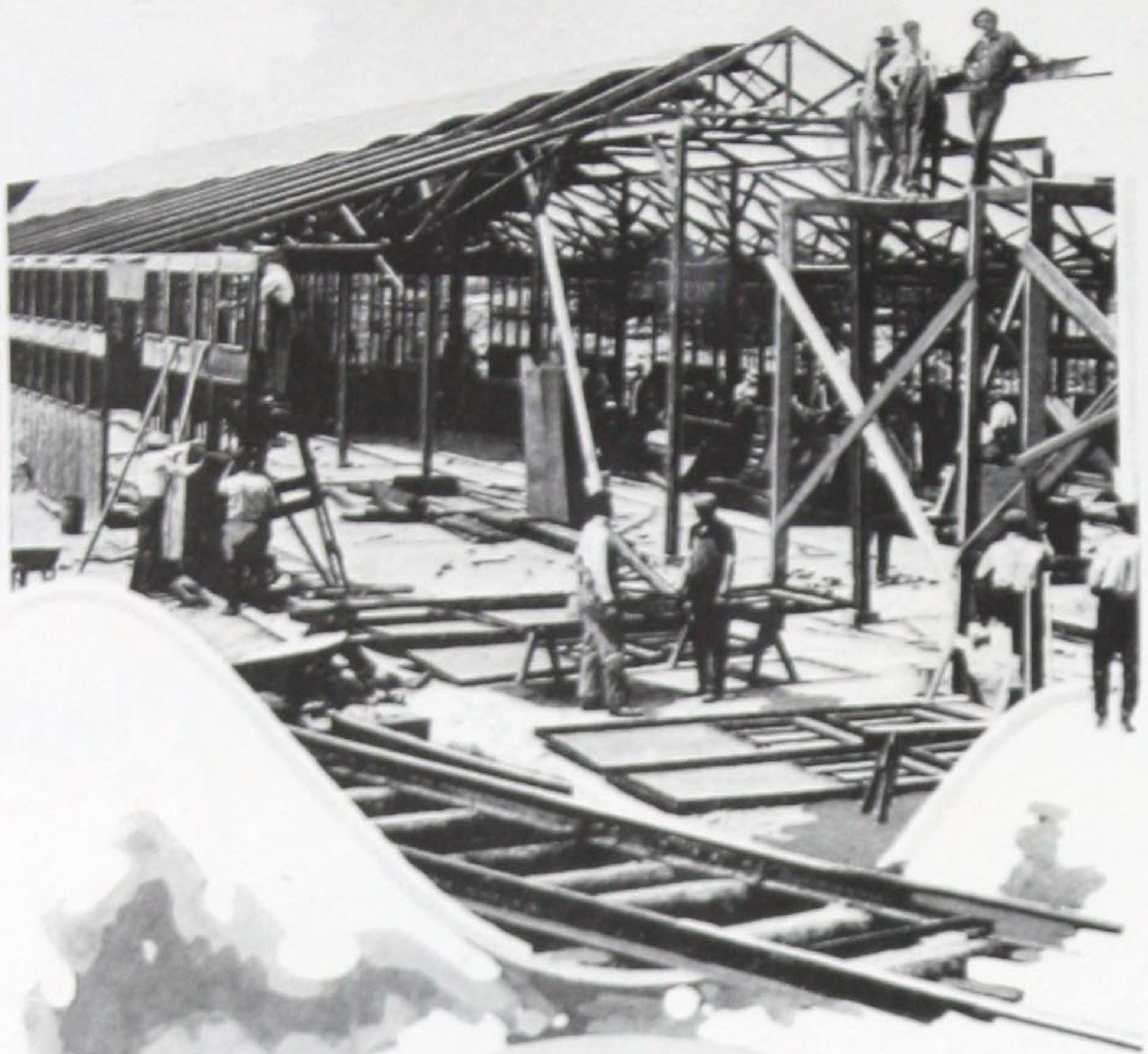
Its progress through the plant is thoughtfully planned and scheduled to conform to your special requirements. The date of shipment is decided in advance. So is the day on which erection must begin. Erection Superintendents in charge of crews of trained Truscon men are located at strategic points from coast to coast. The Superintendent who will direct the erection of your building is near at hand and completely informed about every detail of the task he and his men are to perform. Weeks ahead of time Truscon knows exactly when your building will be fully completed.

The demand of a world-wide clientele have made such service necessary. Years of experience and the steady upbuilding of incomparable facilities have made it possible. And along with this accomplishment has gone hand in hand the development of economies that have definitely established Truscon superiority.

A. SENF
Executive Manufacturing Division

M. F. NAGLE
Manager Erecting Division

Truscon Erects the Complete Building



WHEN you buy a Truscon Building you buy a complete structure, erected and ready for occupancy. For Truscon not only manufactures the units of which your building is composed, Truscon also erects the building. Truscon maintains trained men who specialize in the erection of Steel Buildings. Every detail of assembling the material into a completed building is supervised and done by Truscon men.

This is a big factor in the economy of Truscon buildings. The savings effected for you by this erection service are responsible to an important degree for their low cost. The work is done in an orderly manner. No time is lost. No material is wasted.

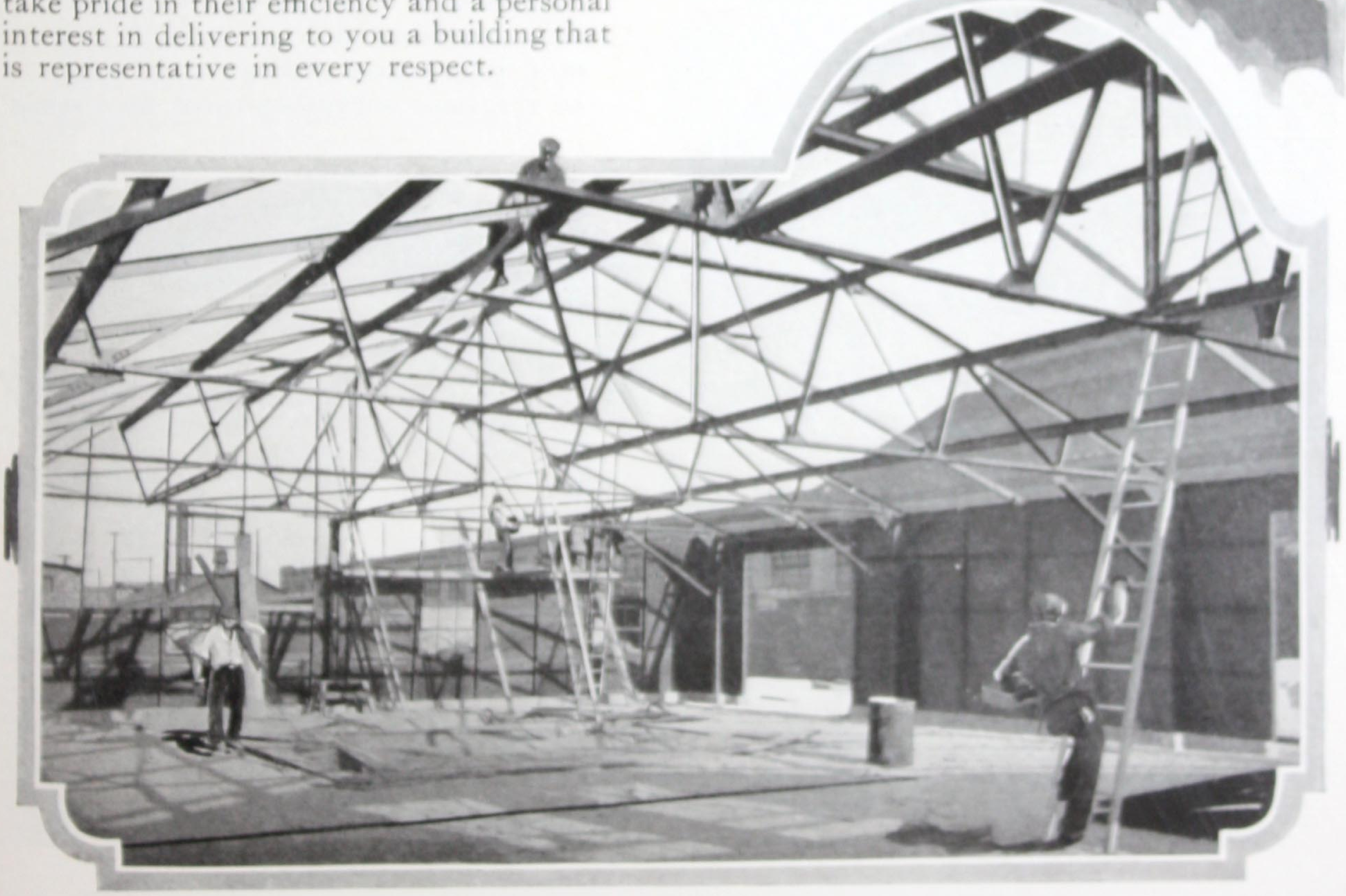
Experience with scores and hundreds of other Truscon Buildings of all sizes and styles, and for many different uses, has fitted these men to handle the erection of your building more satisfactorily than it could possibly be done by inexperienced workmen.

A Nation-Wide Service Organization

ANOTHER important saving effected for you through Truscon Erection Service comes about through the speed with which these buildings are put up. Many cases arise where this feature alone represents a saving to the customer that exceeds the entire cost of the building.

The right building erected and ready for use on a certain date permits important adjustments in the production schedule which, in their turn, are reflected in greater sales and greater profits. When a Truscon Building, for example, is being erected to take the place of a structure destroyed by fire, every day saved means heavy losses averted and quicker return to normal operation.

Truscon Erection Service also assures you that your building will be exactly as designed. There will be no oversights, no slipshod workmanship, because the men who assemble the units are specialists who take pride in their efficiency and a personal interest in delivering to you a building that is representative in every respect.



Truscon Simplified Manufacturing Is Economical

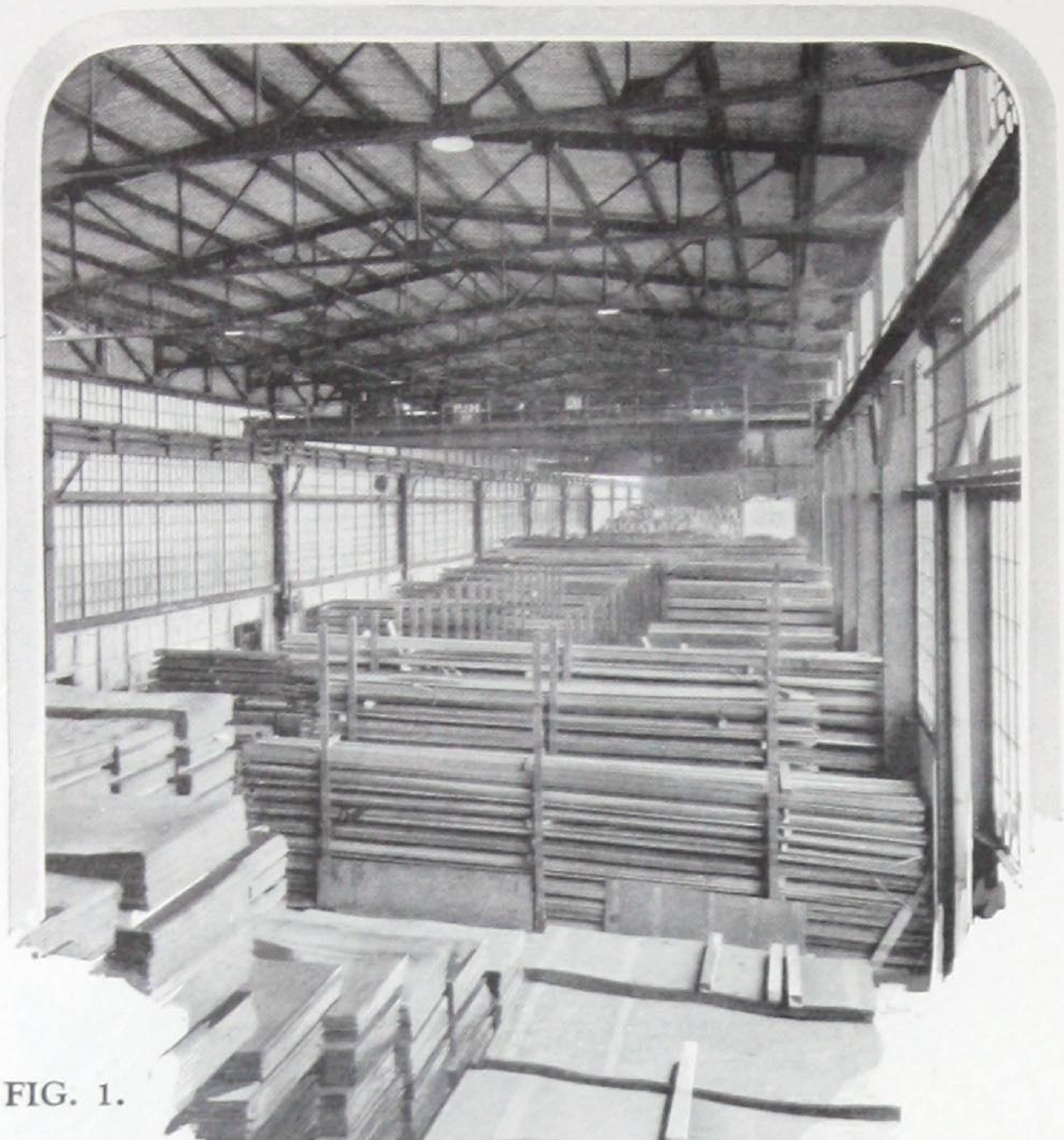


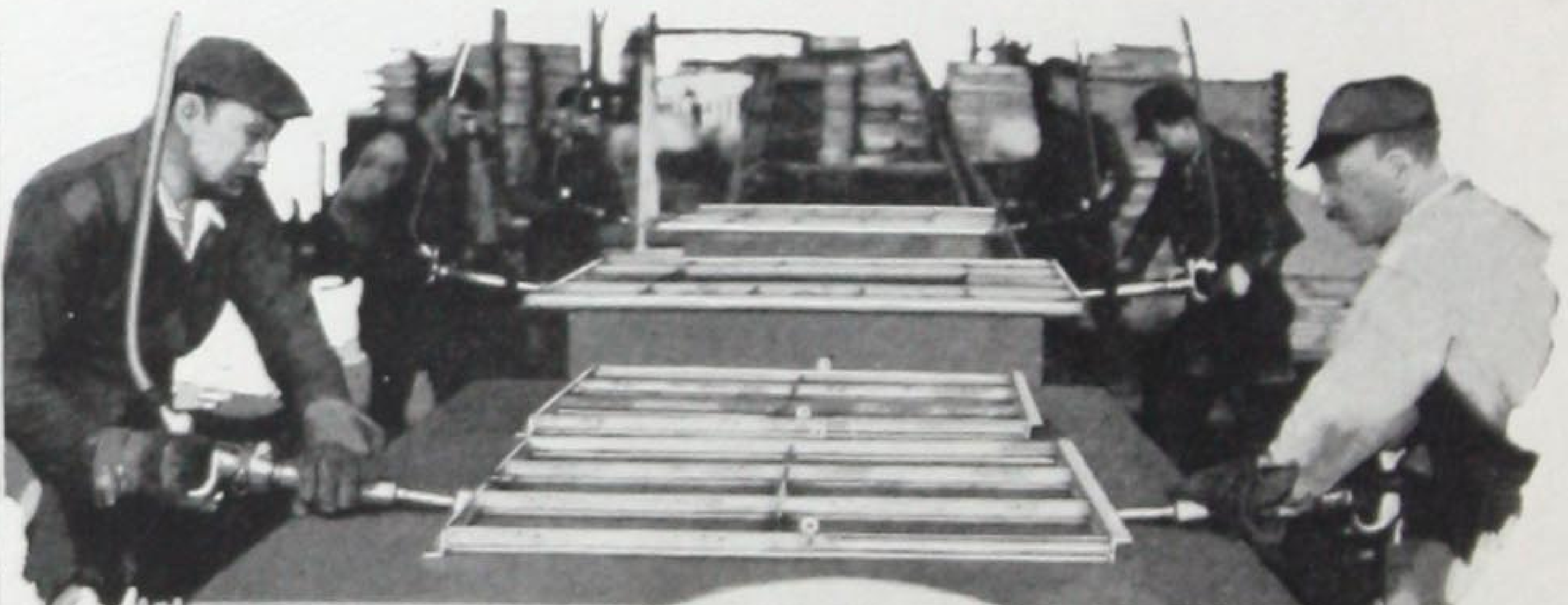
FIG. 1.

LIKE every other Truscon Product, Truscon Steel Buildings depend for their success upon the economies they effect for the user. If Truscon Steel Buildings offer the customer a better value per dollar invested than any other appropriate construction it is because of the tremendous resources which Truscon draws upon in producing them.

Truscon's fifty-acre plant at the heart of the steel producing industry is the largest in the world devoted to the manufacture of Steel building products.

It is this combination of equipment, experience and skill which has consistently led in the world of permanent building for nearly a quarter of a century—which was the first to develop the steel building for commercial and industrial use.

FIG. 1. RAW STOCK DEPARTMENT
FIG. 2. INTERIOR OF STRUCTURAL STEEL SHOPS
FIG. 3. ASSEMBLING TRUSSES
FIG. 4. BUILDING STEEL WINDOWS
FIG. 5. FORMING INTERLOCKING STEEL ROOF PLATES



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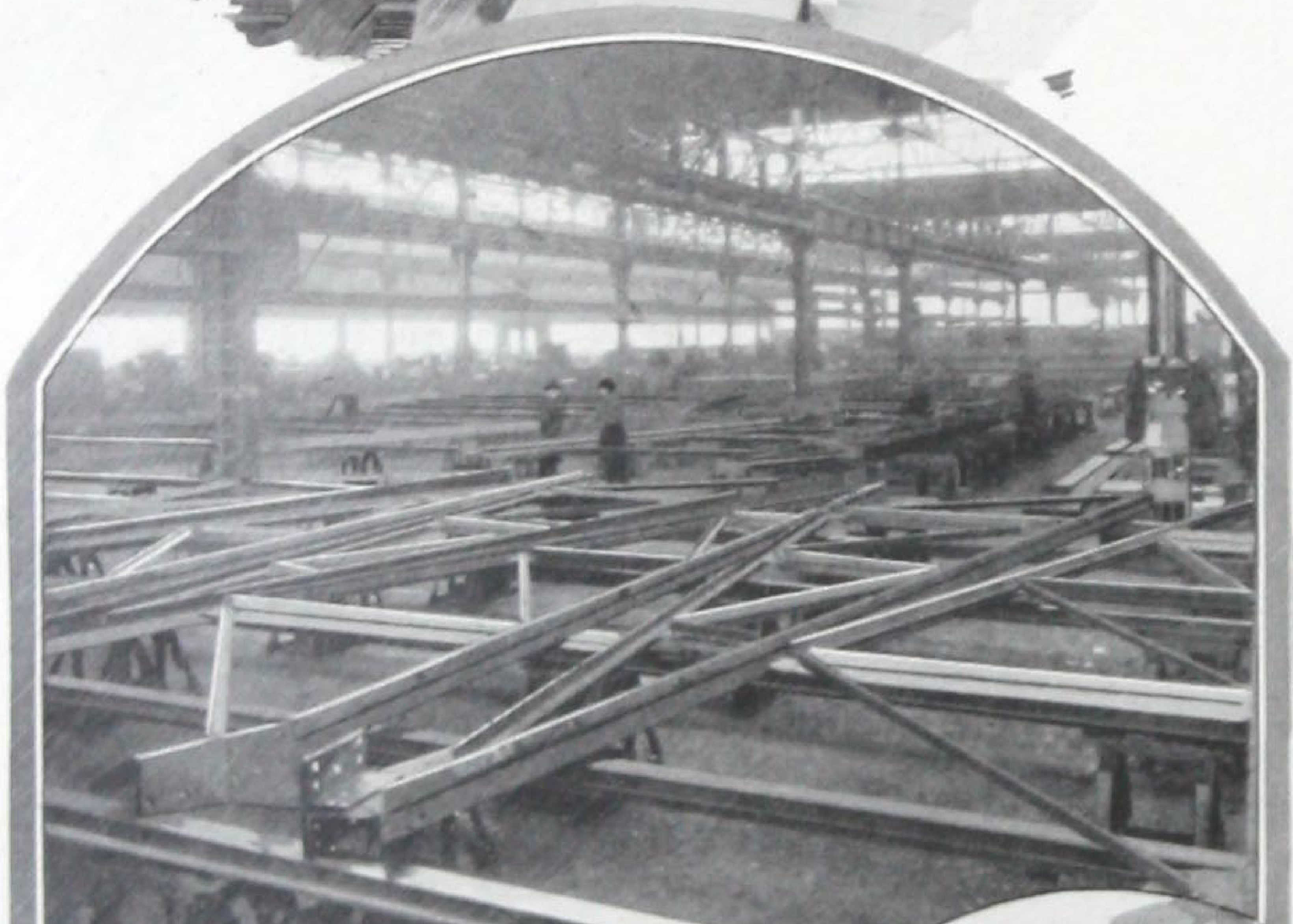

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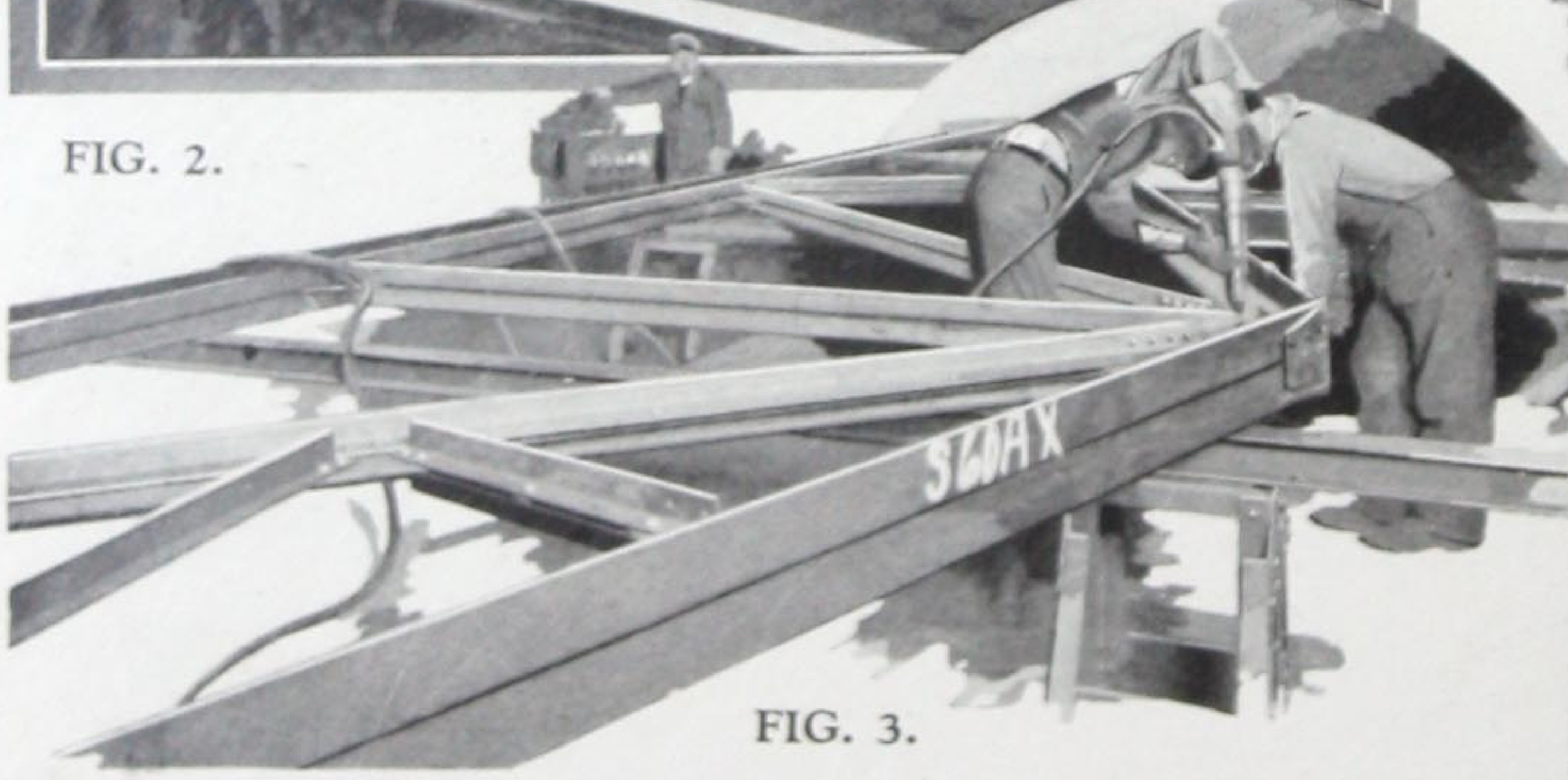

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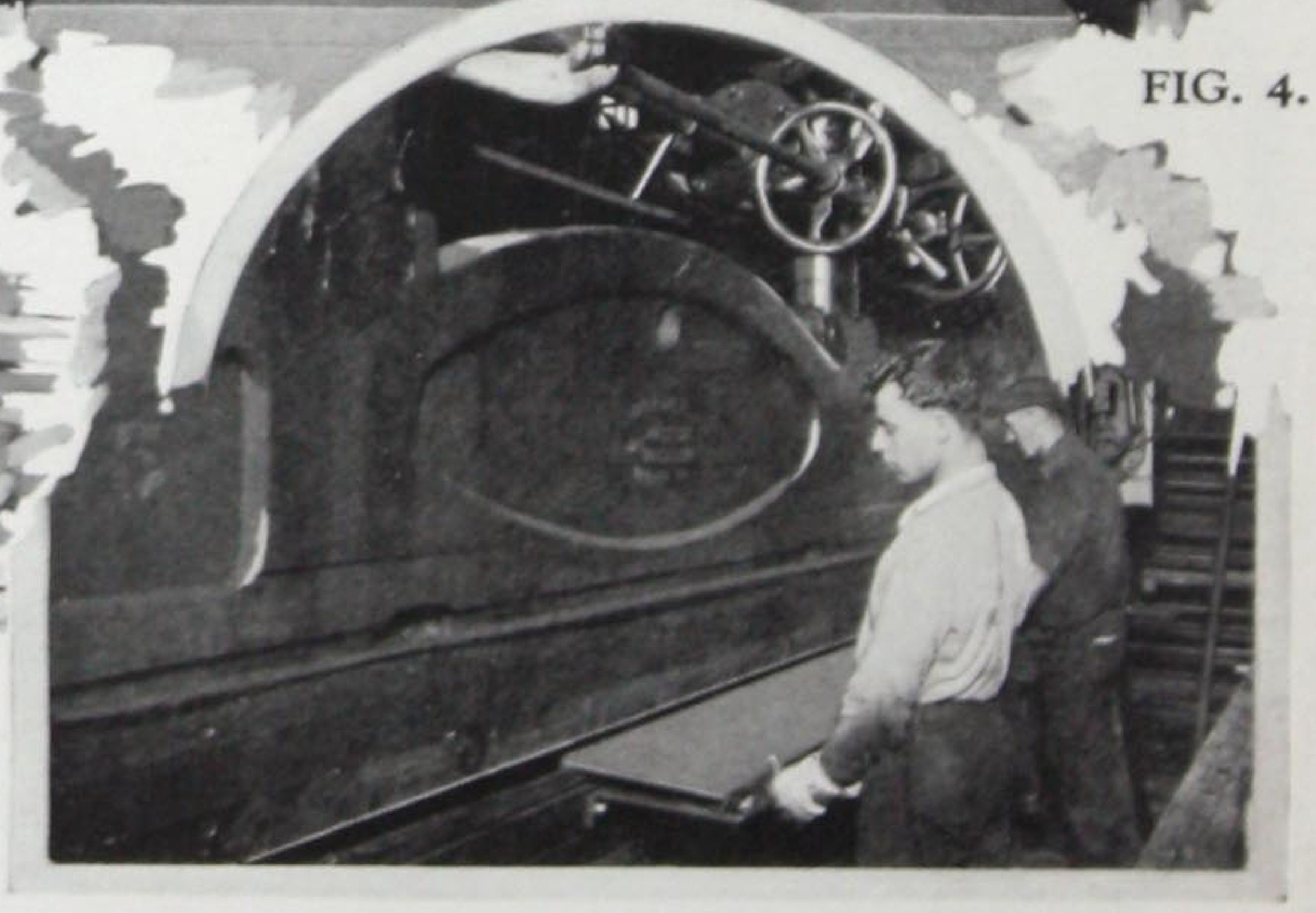


FIG. 5.

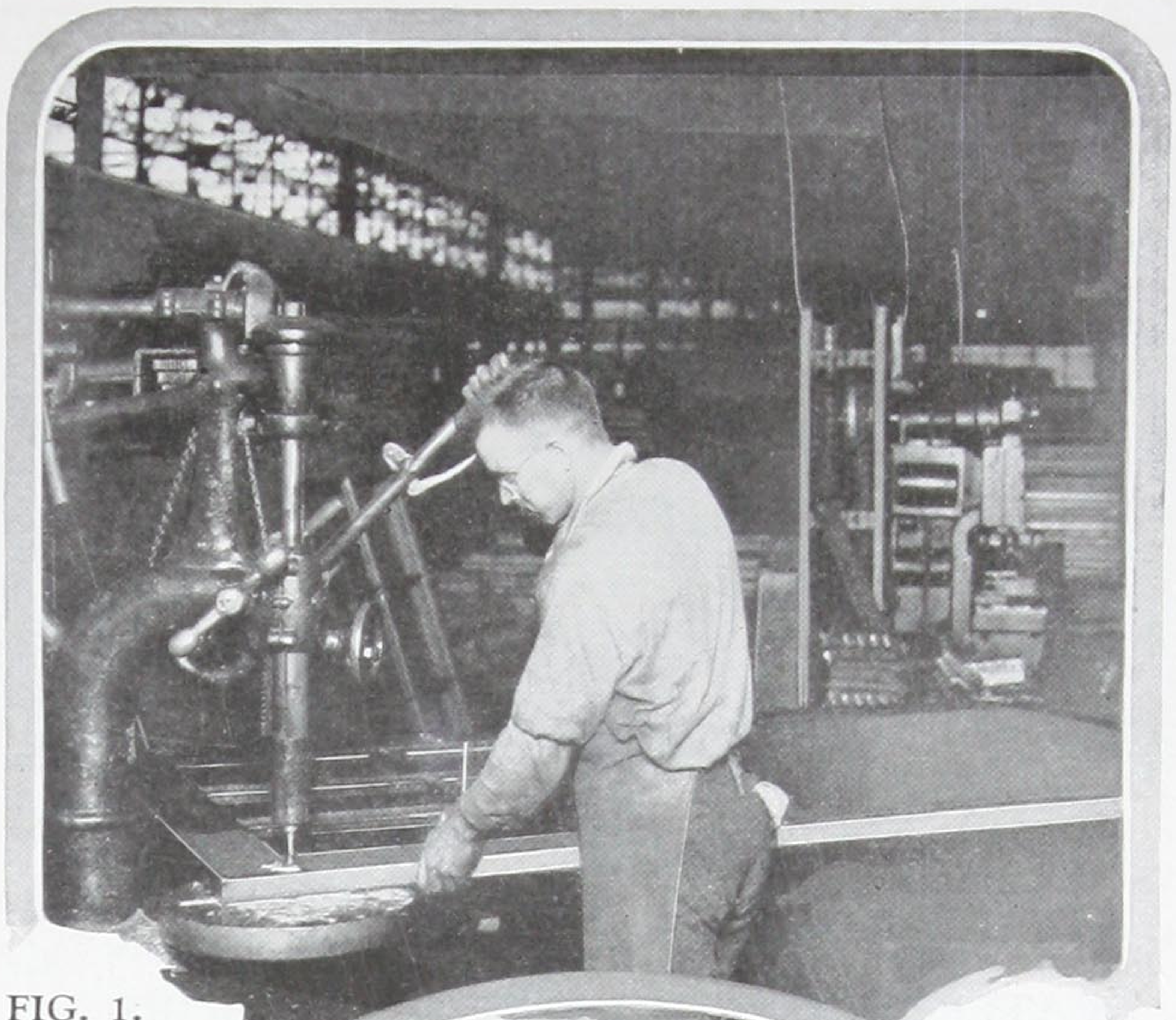
Every Building Part Is a Truscon "Standard"

EACH separate part of every Truscon Steel Building is standardized and manufactured in a plant fully equipped and organized to produce that part at the lowest possible cost consistent with quality. Special machinery designed by Truscon experts and used exclusively by Truscon is employed in their fabrication. Every effort is directed toward the one object of ultimate economy for the purchaser.

Although highly successful from the first, Truscon Steel Buildings have been steadily improved as experience has suggested changes in design. Their present perfection is the result of years of close study of every condition affecting a wide range of housing problems.

The floor area covered by Truscon Steel Buildings has reached the colossal total of twenty million square feet.

FIG. 1. DRILLING TUBULAR DOOR FRAMES FOR HARDWARE
FIG. 2. ALL PARTS RECEIVE A UNIFORMLY HEAVY COAT OF BAR-OX PAINT
FIG. 3. ELECTRIC SPOT WELDS CAN BE RELIED UPON
FIG. 4. INTERIOR OF FINISHED STOCK DEPARTMENT
FIG. 5. LOADING QUICKLY AND SAFELY TRUSCON BUILDINGS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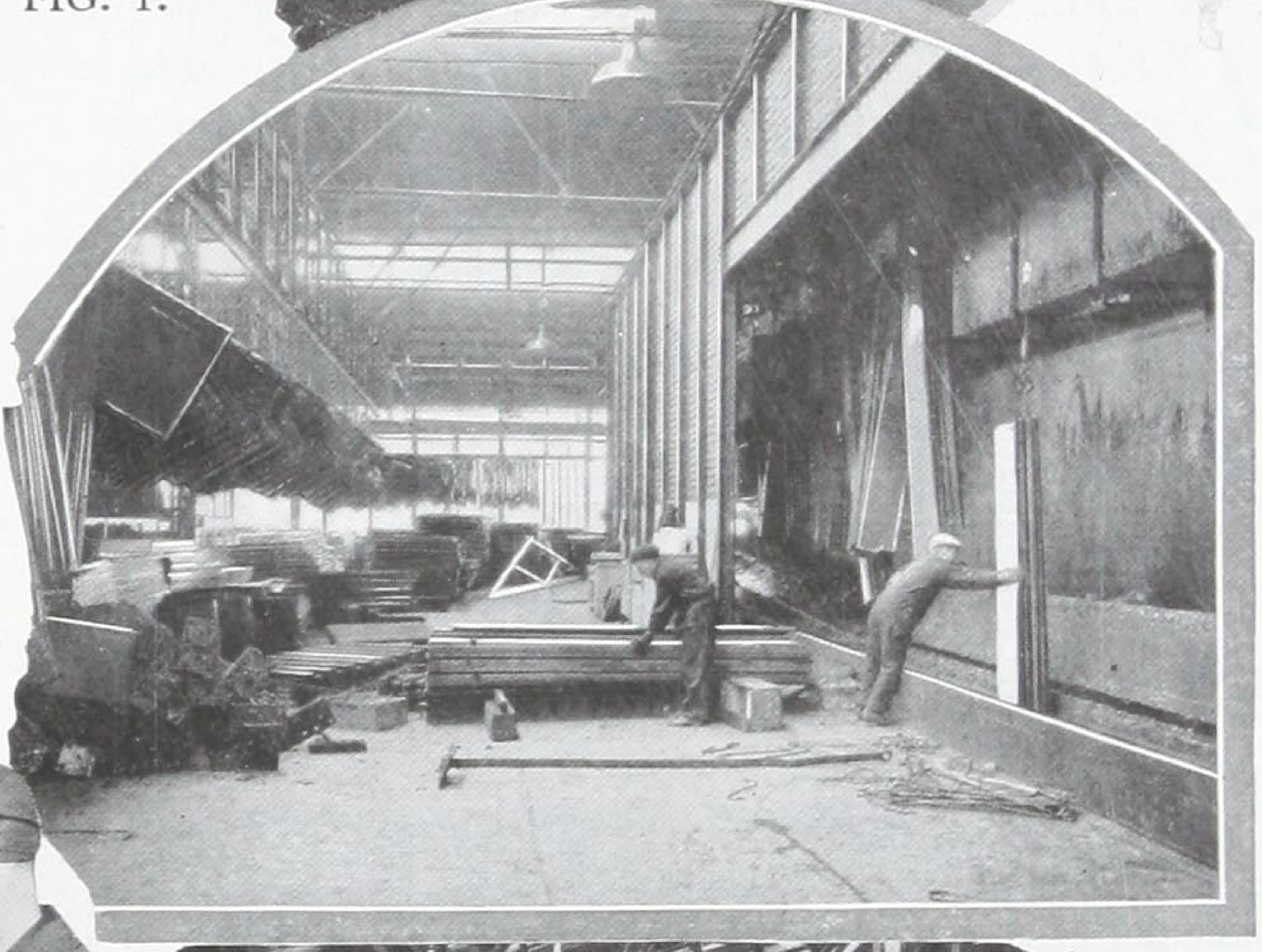
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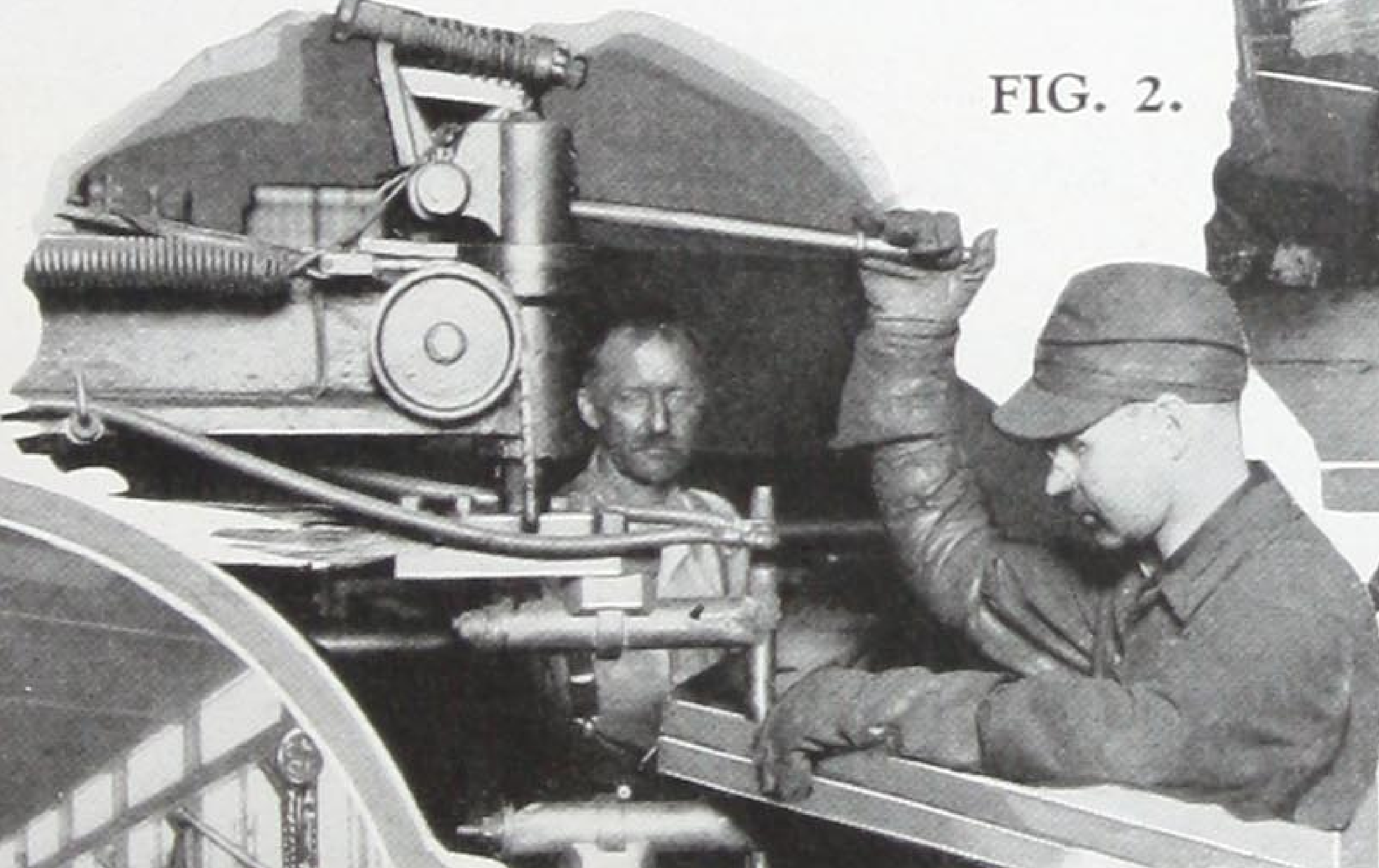
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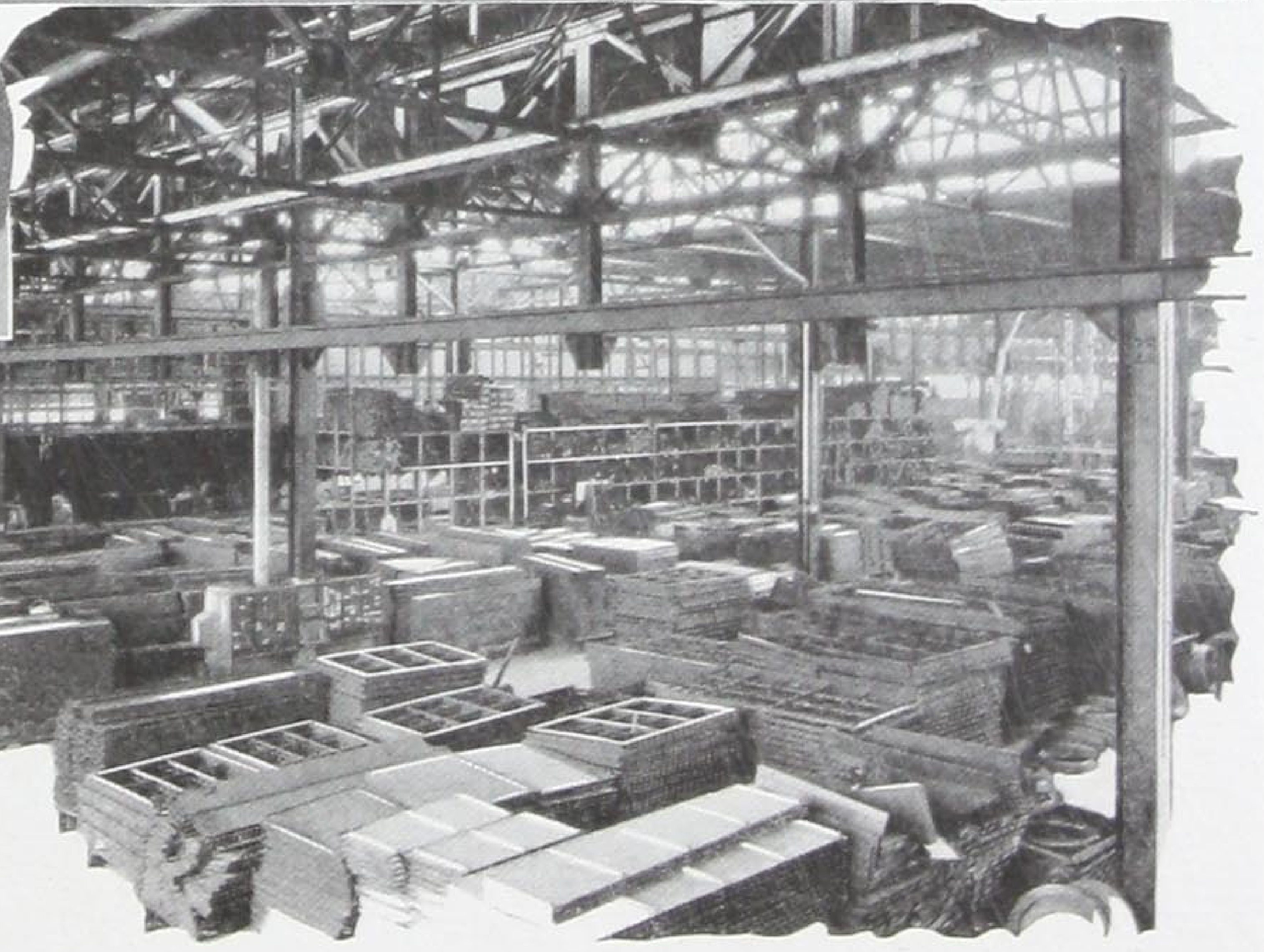
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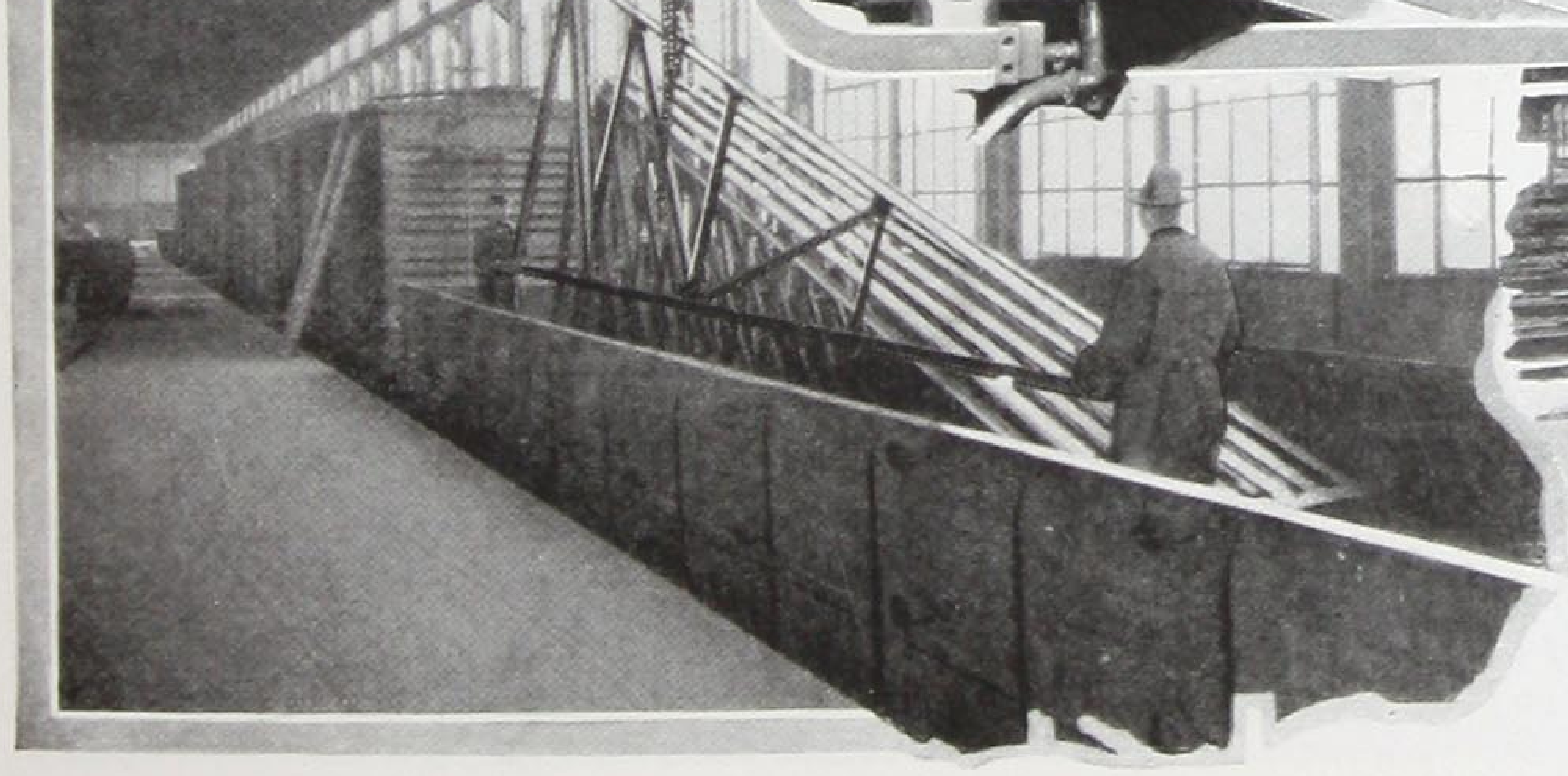


FIG.5.

Products of the Truscon Laboratories

Waterproofings
Factory Maintenance Products
Technical Paints

BAR-OX INHIBITIVE STEEL PAINT

A WATERPROOF paint film for exteriors and interiors. It resists weathering and wears much longer than ordinary paints. In addition to its waterproofness, Bar-Ox is composed of rust-inhibitive pigments which give it the highest degree of rust resistance.

INDUSTRIAL WHITE FOR INTERIORS

INDUSTRIAL WHITE gives a beautiful uniformly white surface which does not turn yellow or hold dust. It is used in hundreds of mills and factories for keeping interiors bright. Economical because of its great opaqueness and covering quality.

WATERPROOFING PASTE FOR FLOORS

IT PREVENTS seepage of moisture so that concrete floors can later be painted or varnished. If a wood floor is laid over the concrete, Truscon waterproofing paste prevents rotting. It is a waterproofing that becomes an integral part of the concrete.

TRUSCON METALLIC FLOOR HARDENER

PROVIDES a tough, hard, "iron-like" surface which enables the floor to give much longer service under severe conditions. Especially useful for warehouse and factory floors. Truscon Metallic Floor Hardener is mixed with dry cement and sprinkled over the floor at the time the finishing work is done.

TRUSCON AGATEX FLOOR HARDENER

A CHEMICAL floor hardener applied only to floors which have already "set." Truscon Agatex is recommended for use where floor wear is less severe than on those requiring metallic floor hardener. It is mixed with water and applied by sweeping.

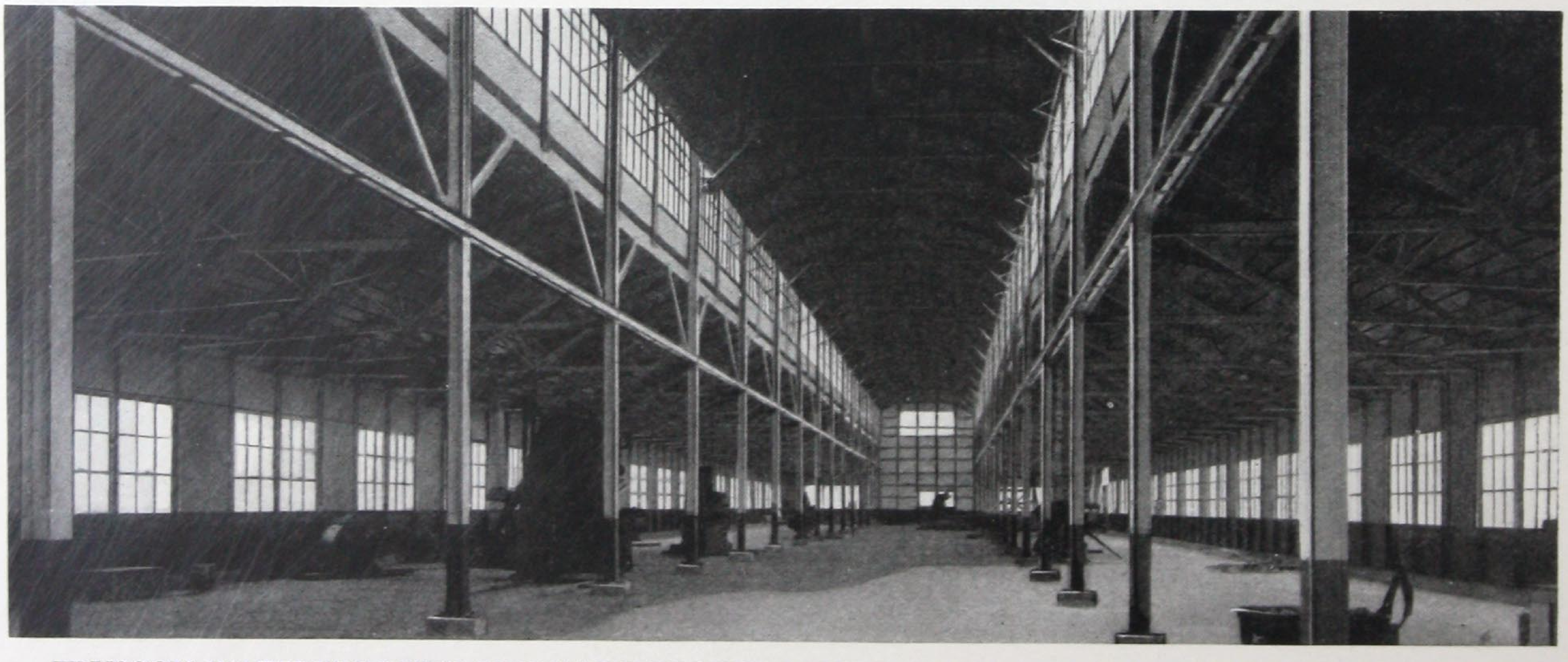
TRUSCON FLOOR ENAMEL

FOR concrete, wood or composition floors, Truscon Floor Enamel provides a beautiful, smooth, satiny finish which withstands wear and washing. Especially recommended for interiors where high grade floor finish is desired.

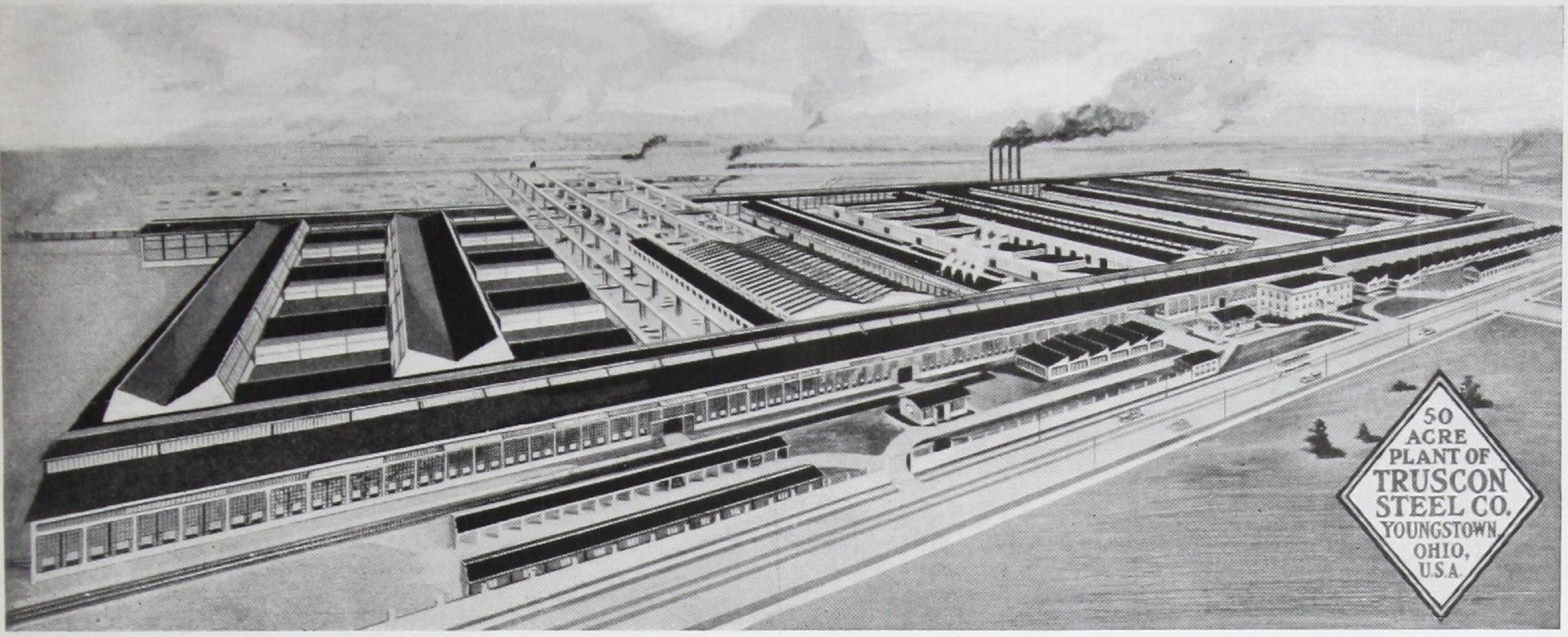
TRUSCON GRANATEX FLOOR VARNISH

A TRANSPARENT waterproof varnish for concrete, oxychloride and wood floors. Granatex acts as a binder for the surface, prevents dusting and resists foot-wear. It makes the surface easy to clean because dirt, oil and other staining materials are not absorbed.

THE TRUSCON LABORATORIES, DETROIT, MICHIGAN, FURNISH SPECIALIZED INFORMATION ON REQUEST



TRUSCON WATERPROOFING PRODUCTS REDUCE INTERIOR AND EXTERIOR MAINTENANCE COSTS


50 ACRE PLANT OF TRUSCON STEEL CO. YOUNGSTOWN, OHIO, U.S.A.

CALL IN A TRUSCON ENGINEER

TRUSCON'S organization of Sales Offices and Warehouses completely covers the country. Through any of these offices you can obtain the services of a complete engineering force and of specialists in the economical application of Truscon Products.

Branch Offices at Your Service

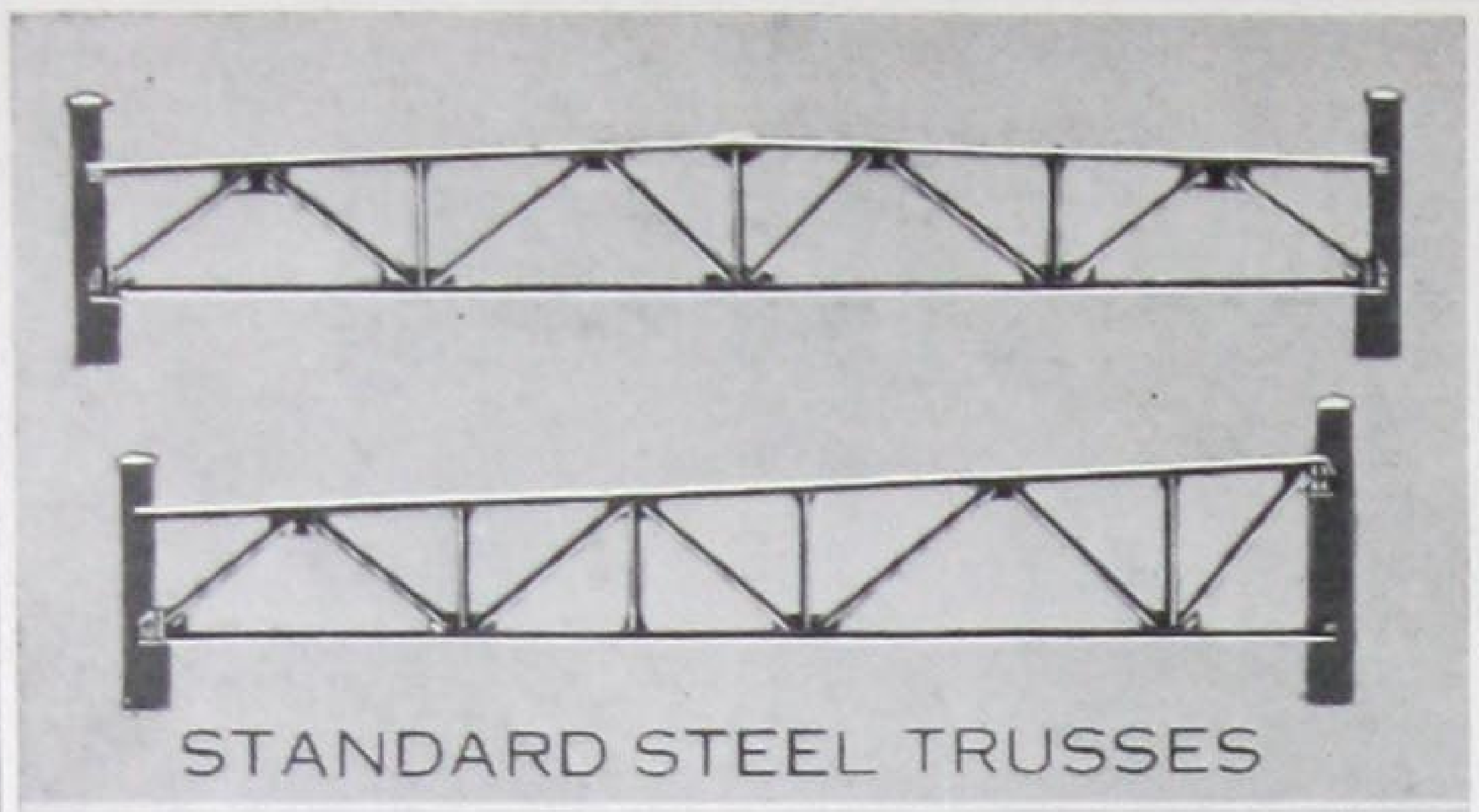
Albany, N. Y., 100 State Street
Atlanta, Ga., 702 Wynne Claughton Bldg.
Baltimore, Md., 406 Builders Exchange
Birmingham, Ala., 513 N. 21st Street
Boston, Mass., 147 Summer St., No. 9
Buffalo, N. Y., 726 Genesee Bldg.
Chicago, Ill., 165 E. Erie Street
Cincinnati, O., 617 Provident Bk. Bldg.
Cleveland, O., 4614 Prospect Ave.
Columbus, O., 1000-04 Ferris Bldg.
Dallas, Tex., 115 Field Street
Dayton, O., 110 S. Wayne Street
Denver, Col., 2941 Walnut Street
Des Moines, Ia., 417 Hubbell Bldg.
Detroit, Mich., 615 Wayne Street
El Paso, Tex., 1701 Olive Street
Erie, Pa., 801 Palace Hardware Bldg.
Ft. Wayne, Ind., c/o Old Ft. Supply Co.
Greensboro, N. C., 1005 Jefferson Std. Life Bldg.
Harrisburg, Pa., 3025 Derry Street
Houston, Tex., 312 Chronicle Bldg.
Huntington, W. Va., 804 Robson Prichard Bldg.
Indianapolis, Ind., 241 E. Ohio Street
Jacksonville, Fla., 215 Professional Bldg.
Kansas City, Mo., 611 Bryant Bldg.
Los Angeles, Calif., 1480 E. Fourth Street
Louisville, Ky., 621 Marion E. Taylor Bldg.
Memphis, Tenn., 801 Columbian Mut. Tower Bldg.
Miami, Fla., 236 Columbia Bldg.
Milwaukee, Wis., 1200 Straus Bldg.
Minneapolis, Minn., 601 Metropolitan Bank Bldg.
Nashville, Tenn., 217 Vendome Bldg.
Newark, N. J., 38 Clinton Street
New Haven, Conn., 42 Church Street
New Orleans, La., 605 Carondelet Bldg.
New York, N. Y., 31 Union Square
Norfolk, Va., 526-9 Dickson Bldg.
Oakland, Calif., 404 Hobart Street
Oklahoma City, Okla., 319 Magnolia Bldg.
Omaha, Nebr., 402 Arthur Bldg.
Philadelphia, Pa., 1505 Race St.
Pittsburgh, Pa., 2541 Oliver Bldg.
Portland, Ore., 463 Kerby St.
Providence, R. I., 412 Bank of Commerce Bldg.
Roswell, N. M., County Engineer's Office
St. Louis, Mo., 1637 Syndicate Trust Bldg.
Salt Lake City, Utah, 422 McIntyre Bldg.
San Antonio, Tex., 908 Travis Bldg.
San Francisco, Calif., 709 Mission St.
Scranton, Pa., 1642 Roselyn Ave.
Seattle, Wash., 825 Seaboard Bldg.
South Bend, Ind., 221 Christman Bldg.
Springfield, Mass., 476 Main St.
Syracuse, N. Y., 440 Gurney Bldg.
Tampa, Fla., 19 Petteway Bldg.
Toledo, O., 130 Summitt St.
Washington, D. C., 424 Transportation Bldg.

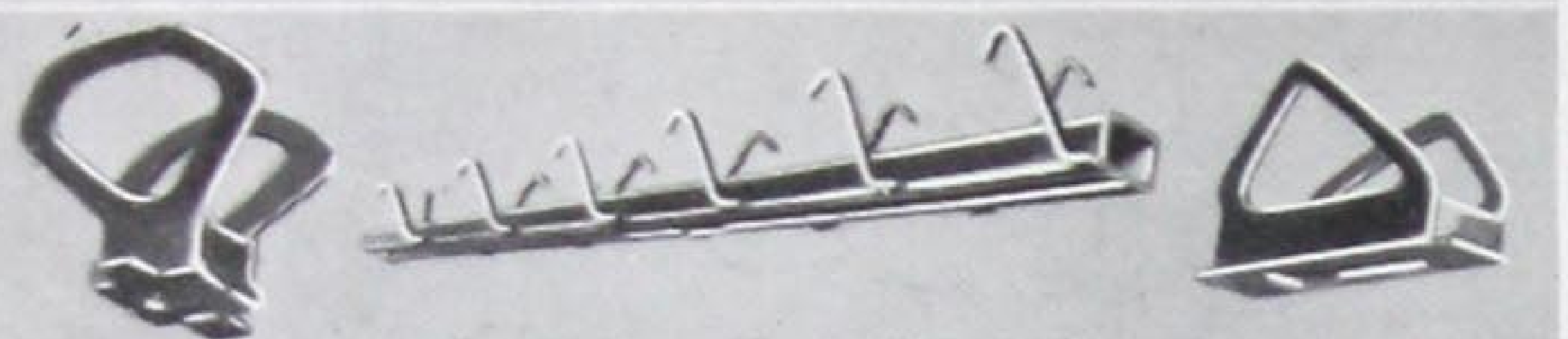
Railroad Department, 165 E. Erie St., Chicago, Ill. Trussed Concrete Steel Co. of Canada, Limited, Walkerville, Ontario
Foreign Trade Department, 90 West Street, New York, N. Y. The Truscon Laboratories, Detroit, Michigan

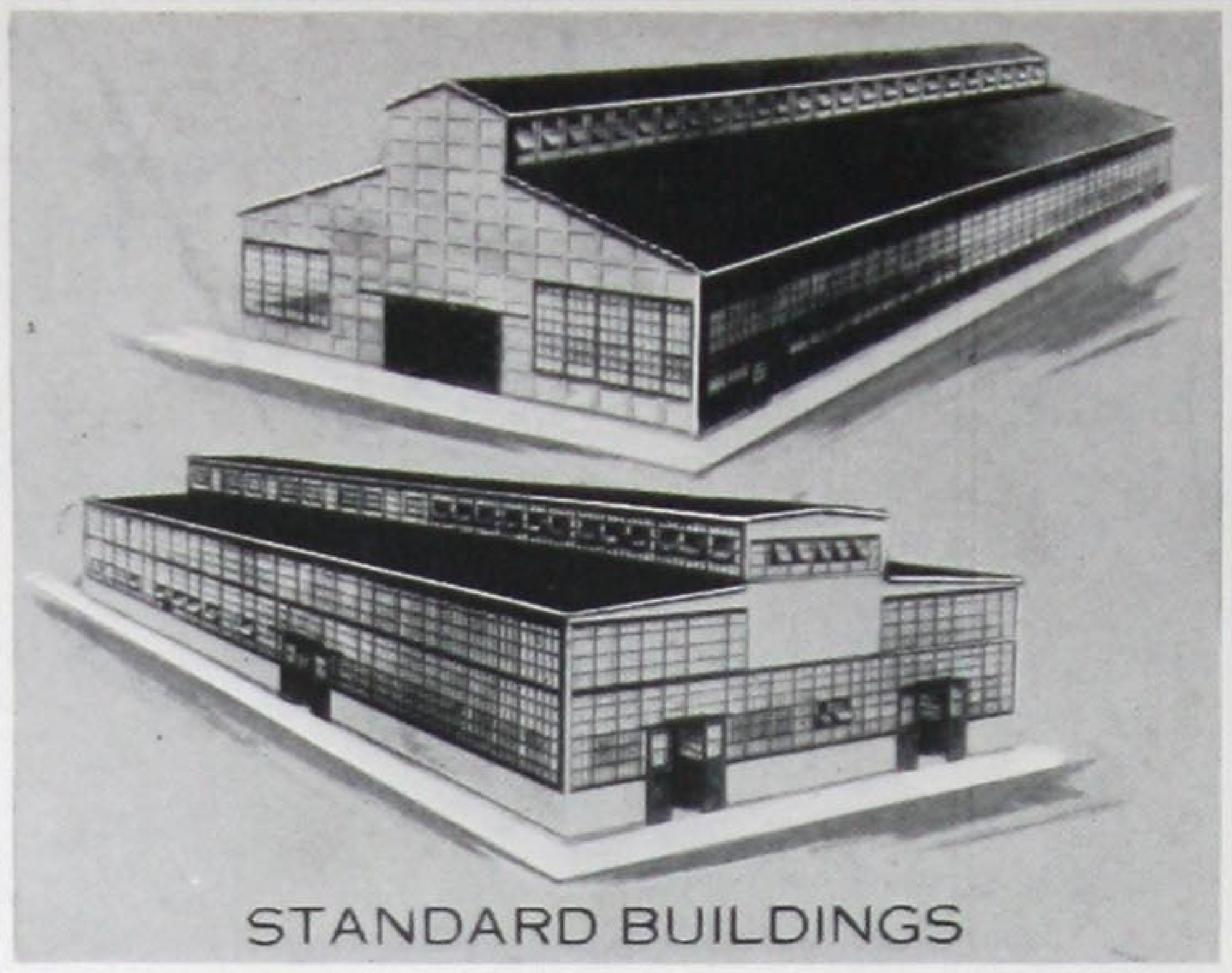
Truscon Warehouses Are Conveniently Located for Prompt Deliveries

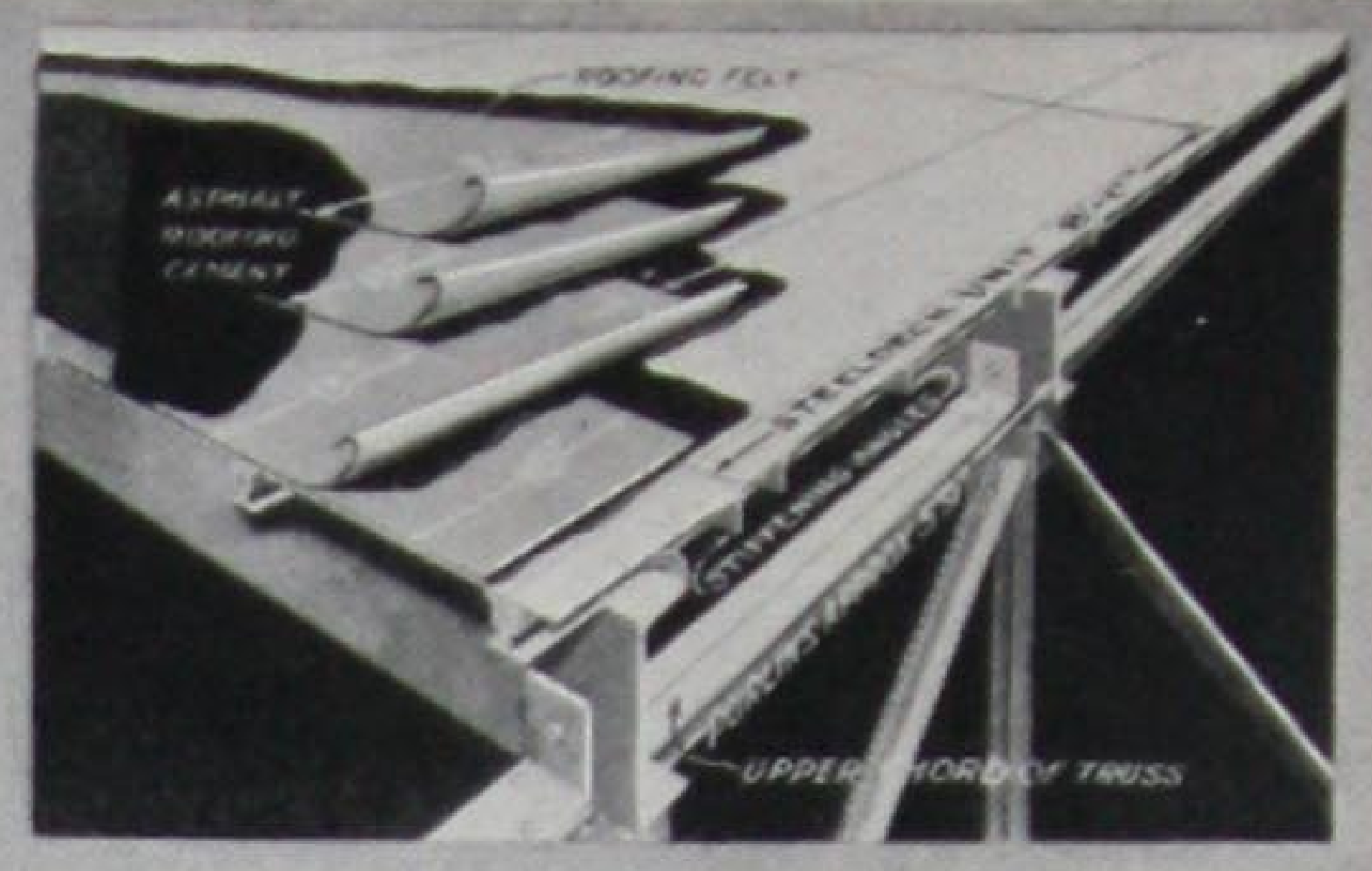
BIRMINGHAM, ALA.
BOSTON, MASS.
BUFFALO, N. Y.
CHICAGO, ILL.
CINCINNATI, OHIO
CLEVELAND, OHIO
DALLAS, TEXAS
DETROIT, MICH.
EL PASO, TEXAS
INDIANAPOLIS, IND.
JACKSONVILLE, FLA.
KANSAS CITY, MO.
LOS ANGELES, CALIF.
MILWAUKEE, WIS.
NEW YORK, N. Y.
NORFOLK, VA.
PHILADELPHIA, PA.
PORTLAND, ORE.
SAN FRANCISCO, CALIF.
ST. LOUIS, MO.
ST. PAUL, MINN.

Head Office and Works
YOUNGSTOWN, OHIO, U. S. A.

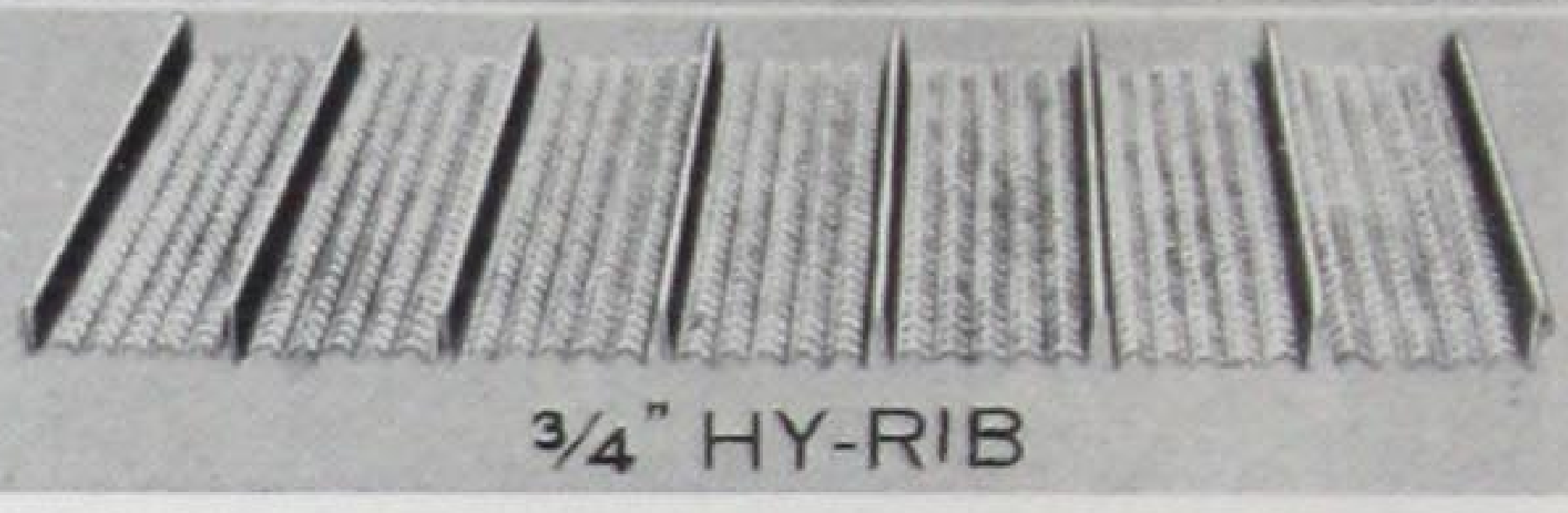

STANDARD STEEL TRUSSES


STEEL INSERTS

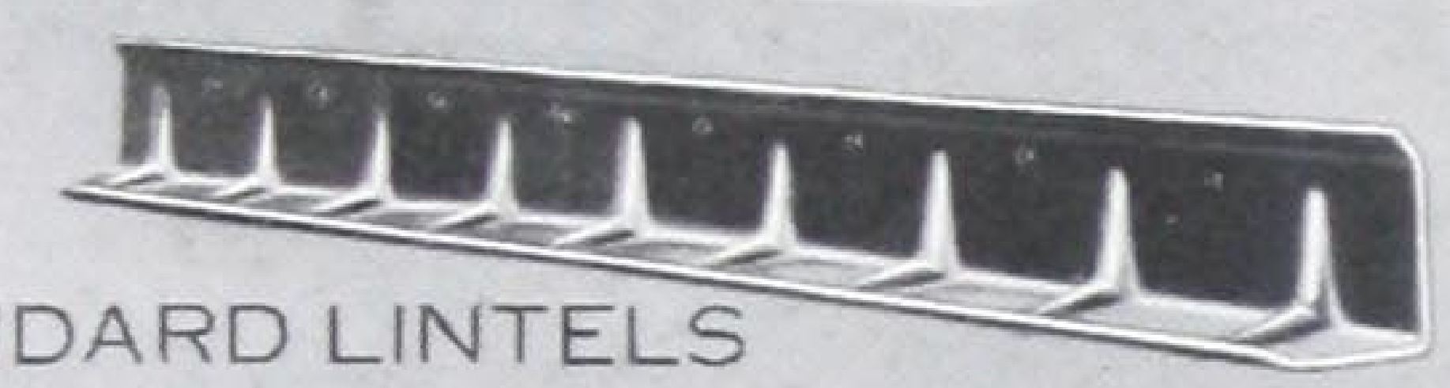

STANDARD BUILDINGS

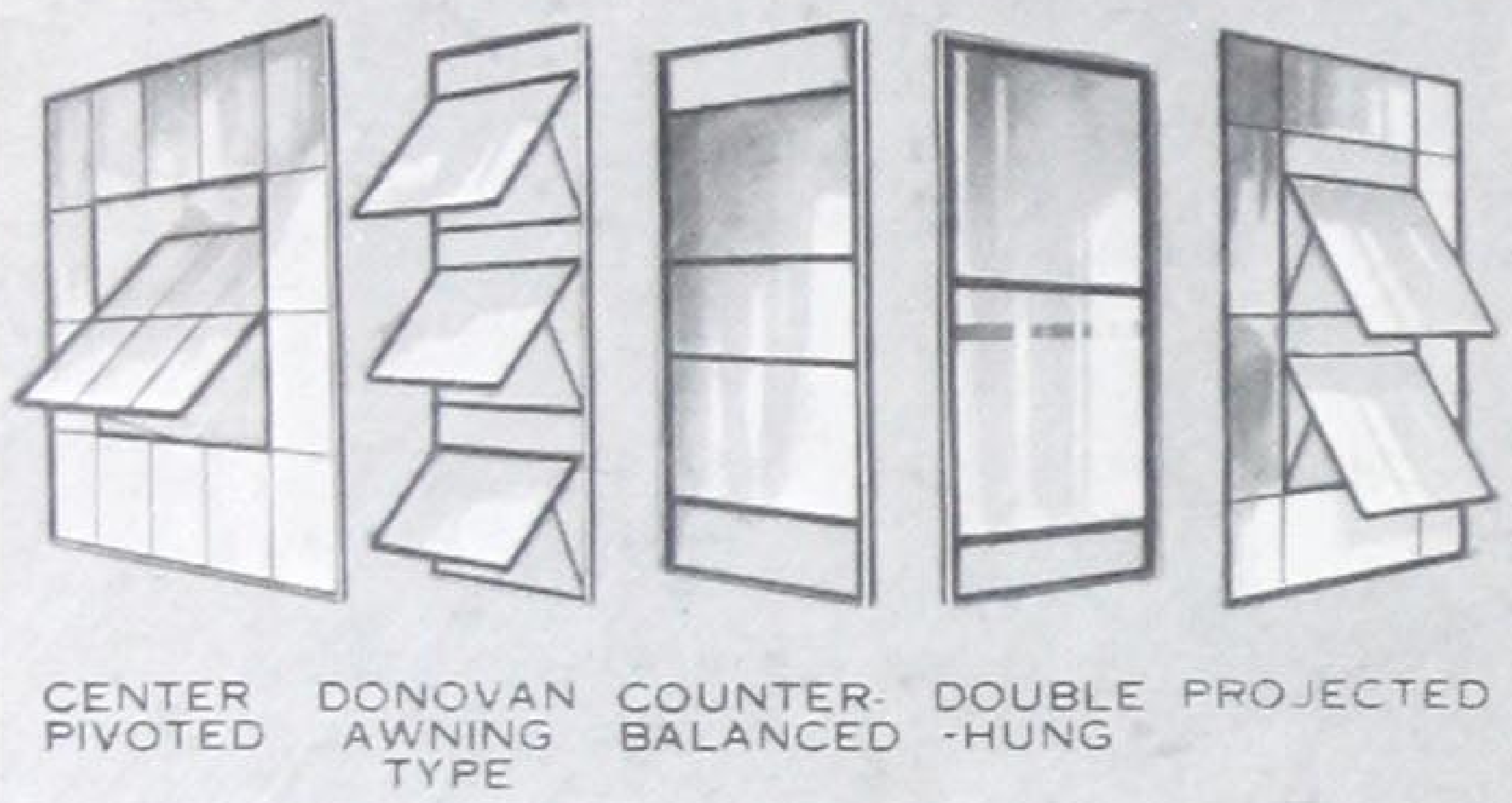


"STEELDECK" ROOFS

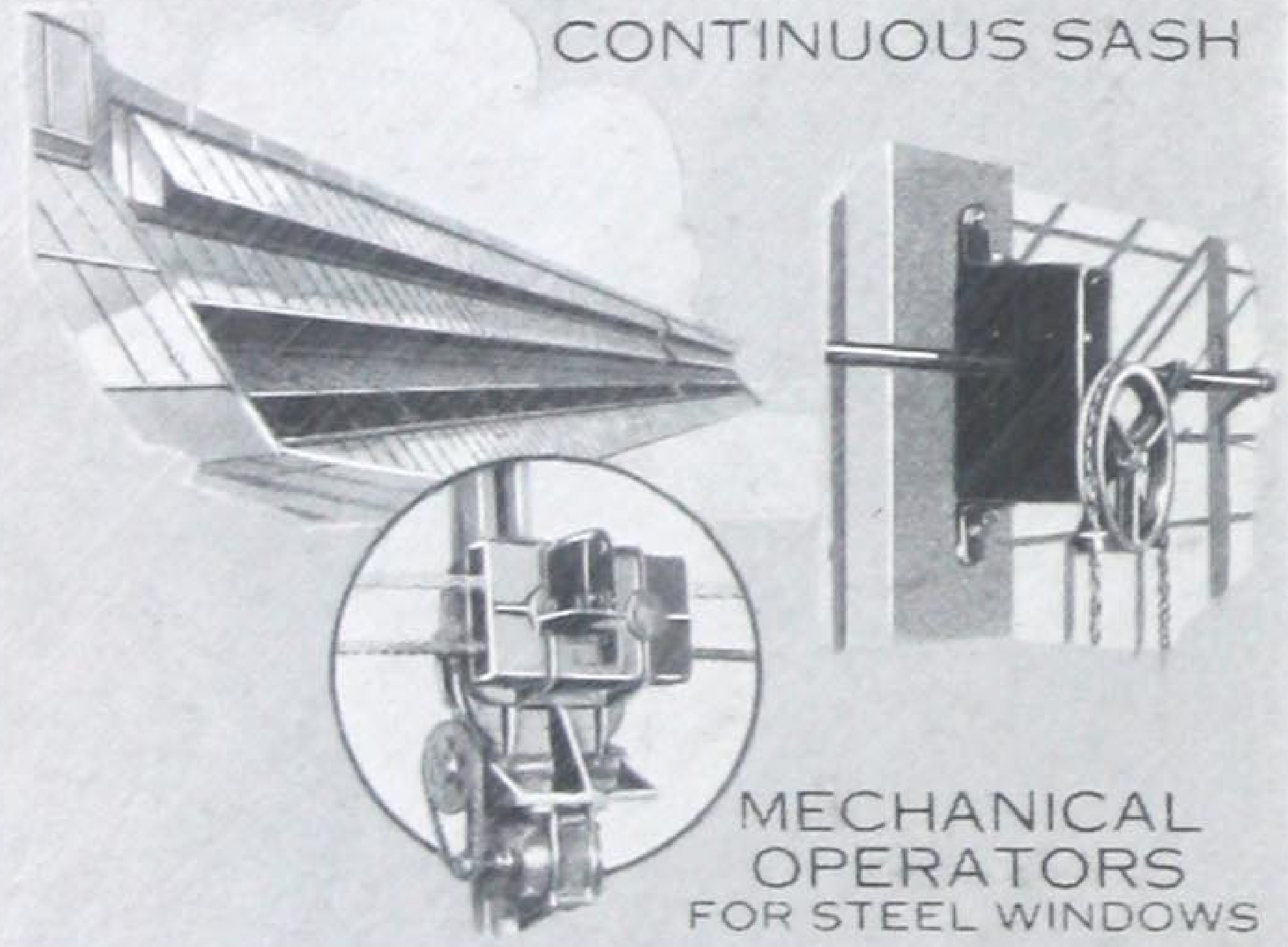

3/4" HY-RIB

CASEMENTS AND BASEMENT WINDOWS


STANDARD LINTELS


CENTER PIVOTED
DONOVAN AWNING TYPE
COUNTER-BALANCED
DOUBLE-HUNG
PROJECTED

STANDARD STEEL WINDOWS


CONTINUOUS SASH

MECHANICAL OPERATORS FOR STEEL WINDOWS

TRUSCON PRODUCTS

INCLUDE:

Standard Buildings
- Flat and Pitched Roofs
- Monitor and Sawtooth Types

"Steeldeck" Roofs

Structural Steel Trusses

Standard Steel Windows
- Center Pivoted
- Projected
- Counterbalanced
- Double-Hung
- Donovan Awning Type
- Casements
- Basement
- Steel Frames

Continuous Steel Sash

Mechanical Operators for Windows

Metal Lath and Hy-Rib
- 1-A Lath
- Diamond Lath
- Corner Bead
- 3/8" and 3/4" Hy-Rib

Steel Joists

Steel Channels

Standard Lintels

Standard Steel Doors

Reinforced Concrete
- Rib Bars
- Kahn Trussed Bars
- Column Hooping
- Floretyles
- Floreforms
- Floredoms

Steel Inserts

Steel Columns, Girts and Purlins

Reinforced Concrete Pavements
- Wire Mesh
- Contraction Joints
- Wing Bars
- Curb Bars and Edge Protectors

Steel Poles

Boxes and Platforms

Foundry Flasks

Pressed Steel Parts

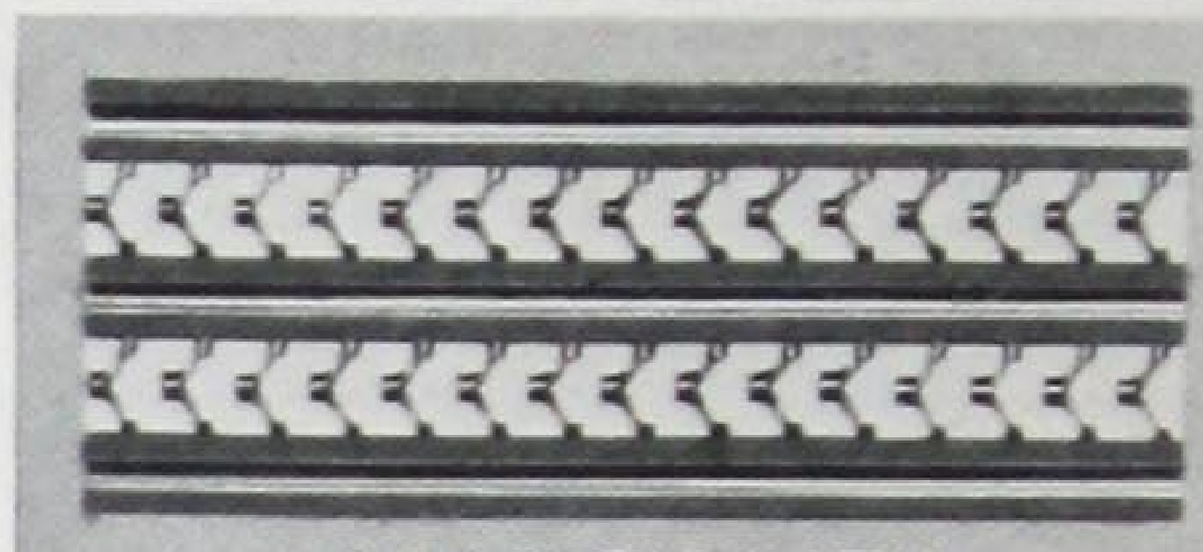
Waterproofing

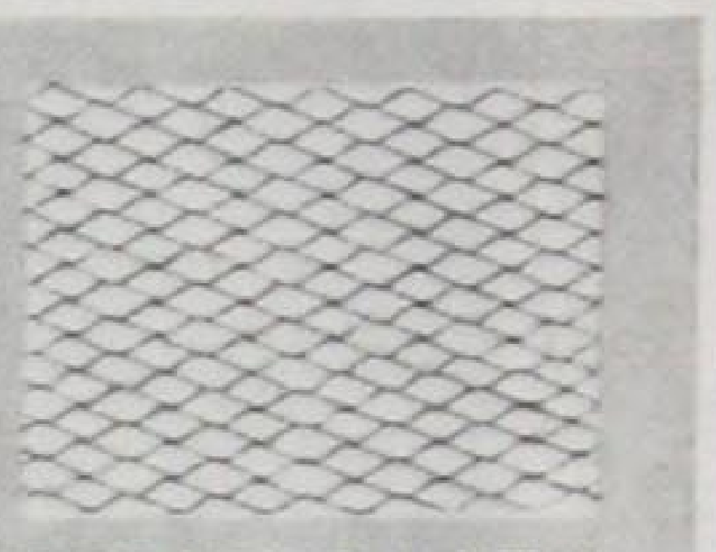
Floor Hardeners

Technical Paints

Cement Tile

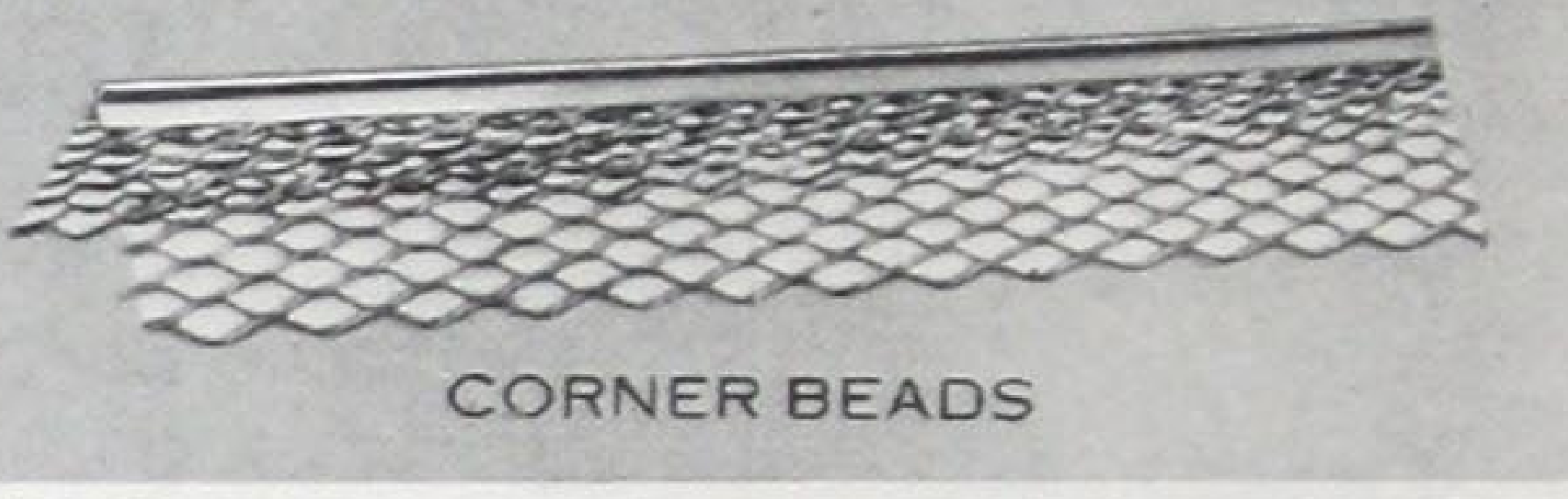
TRUSCON STEEL COMPANY
YOUNGSTOWN, OHIO
Warehouses and Offices in all Principal Cities


1-A HY-RIB LATH


DIAMOND LATH

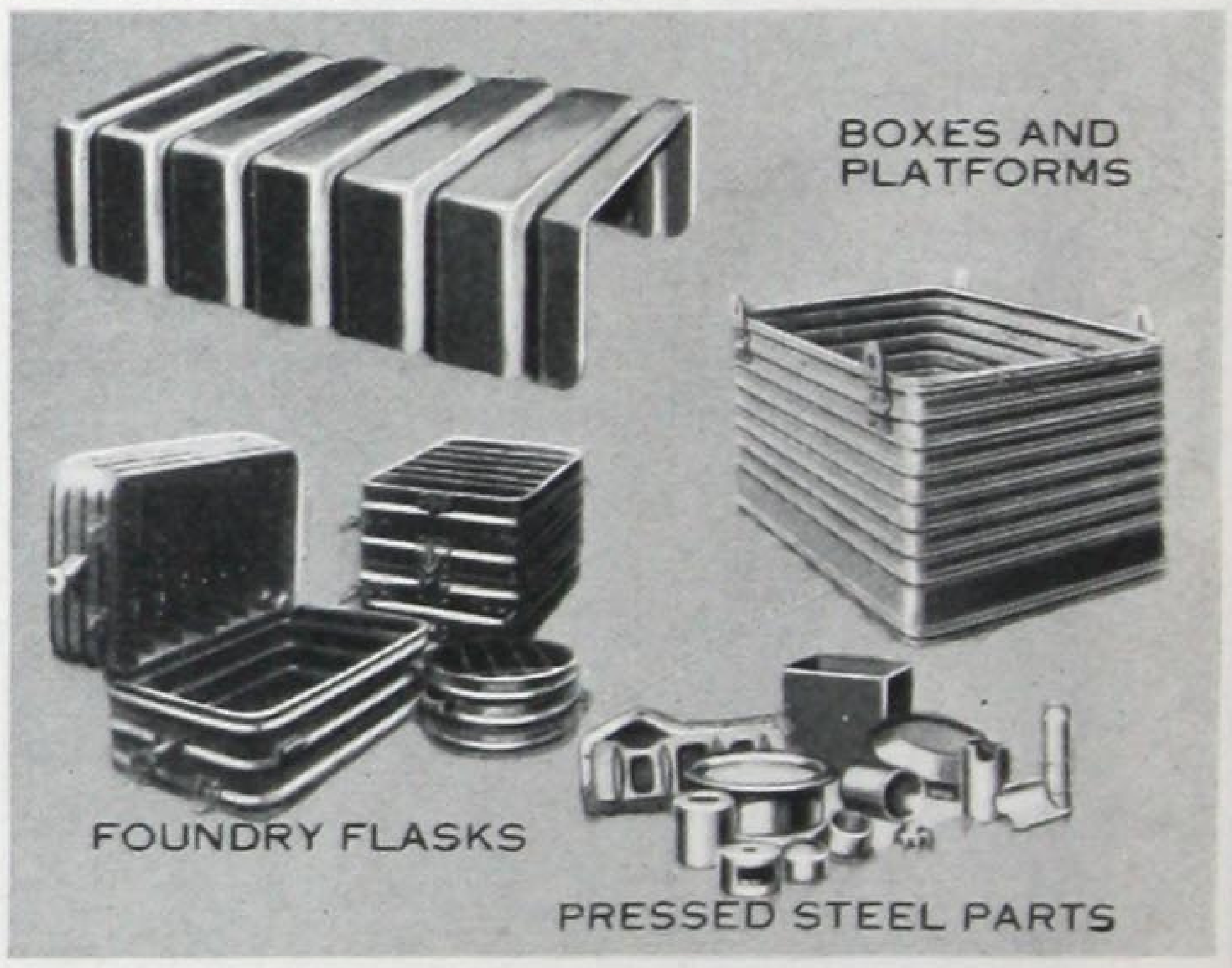
3/8" HY-RIB LATH

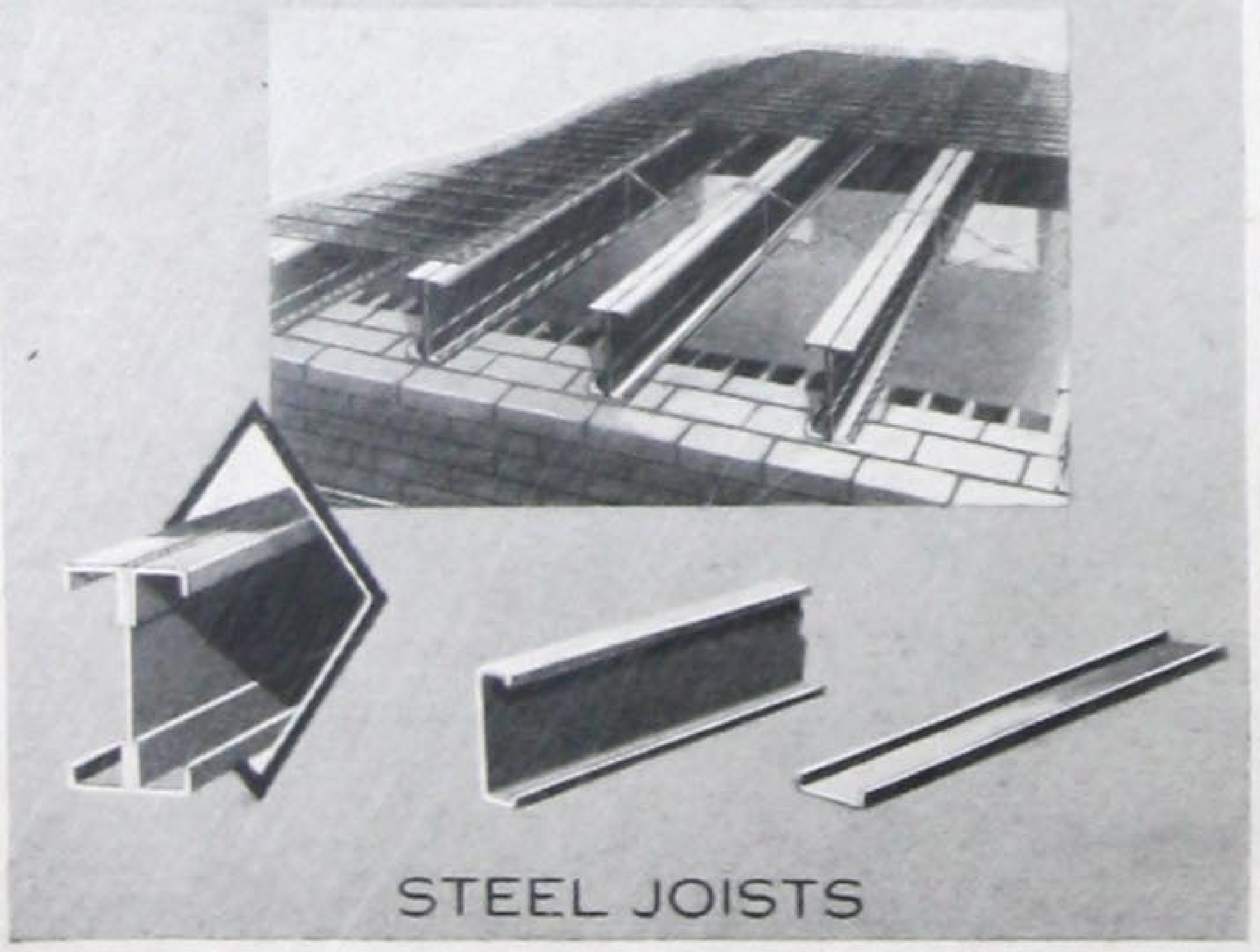
CHANNELS

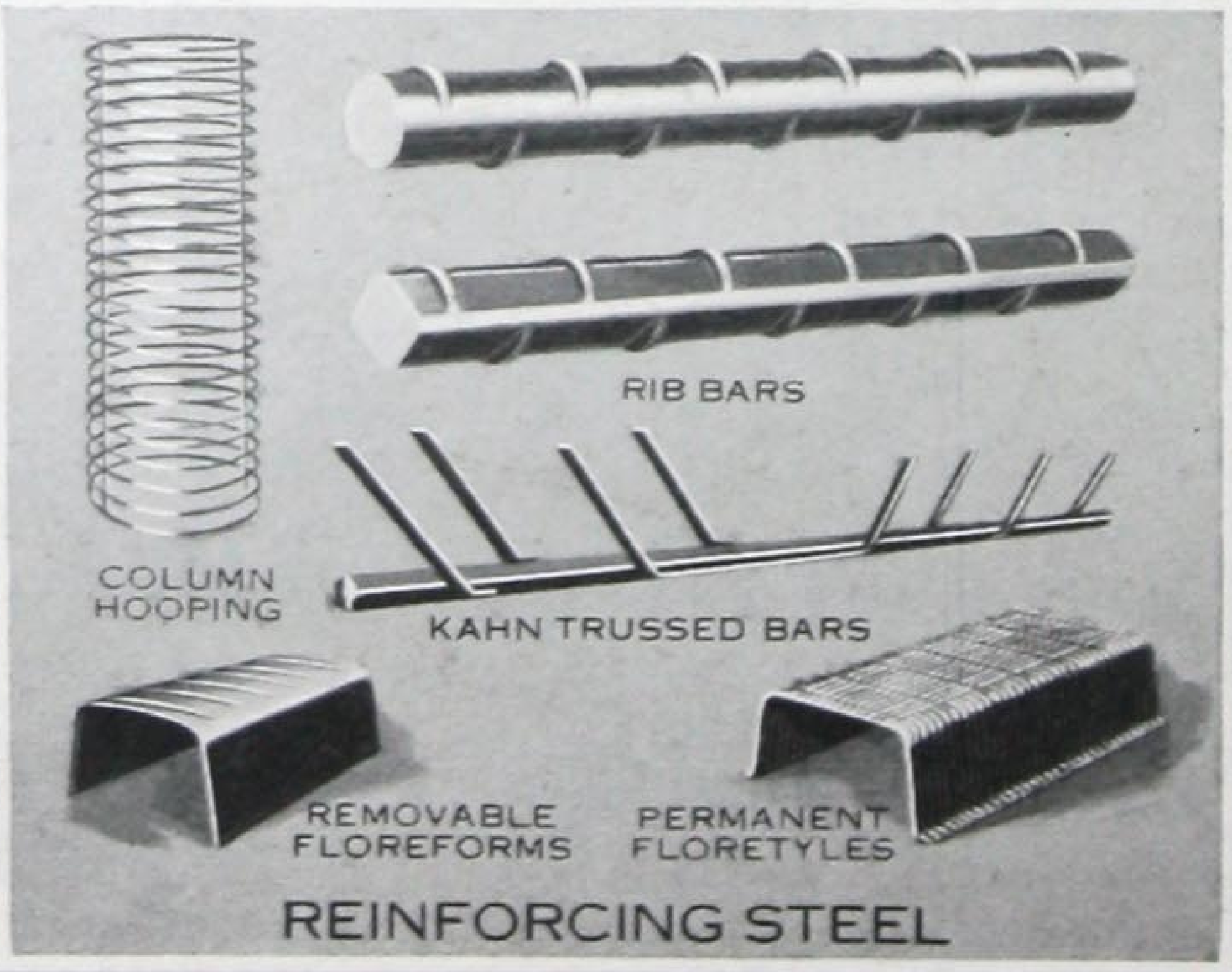

CORNER BEADS

SLIDING TYPE
SEAMLESS TUBULAR TYPE
SWING TYPE

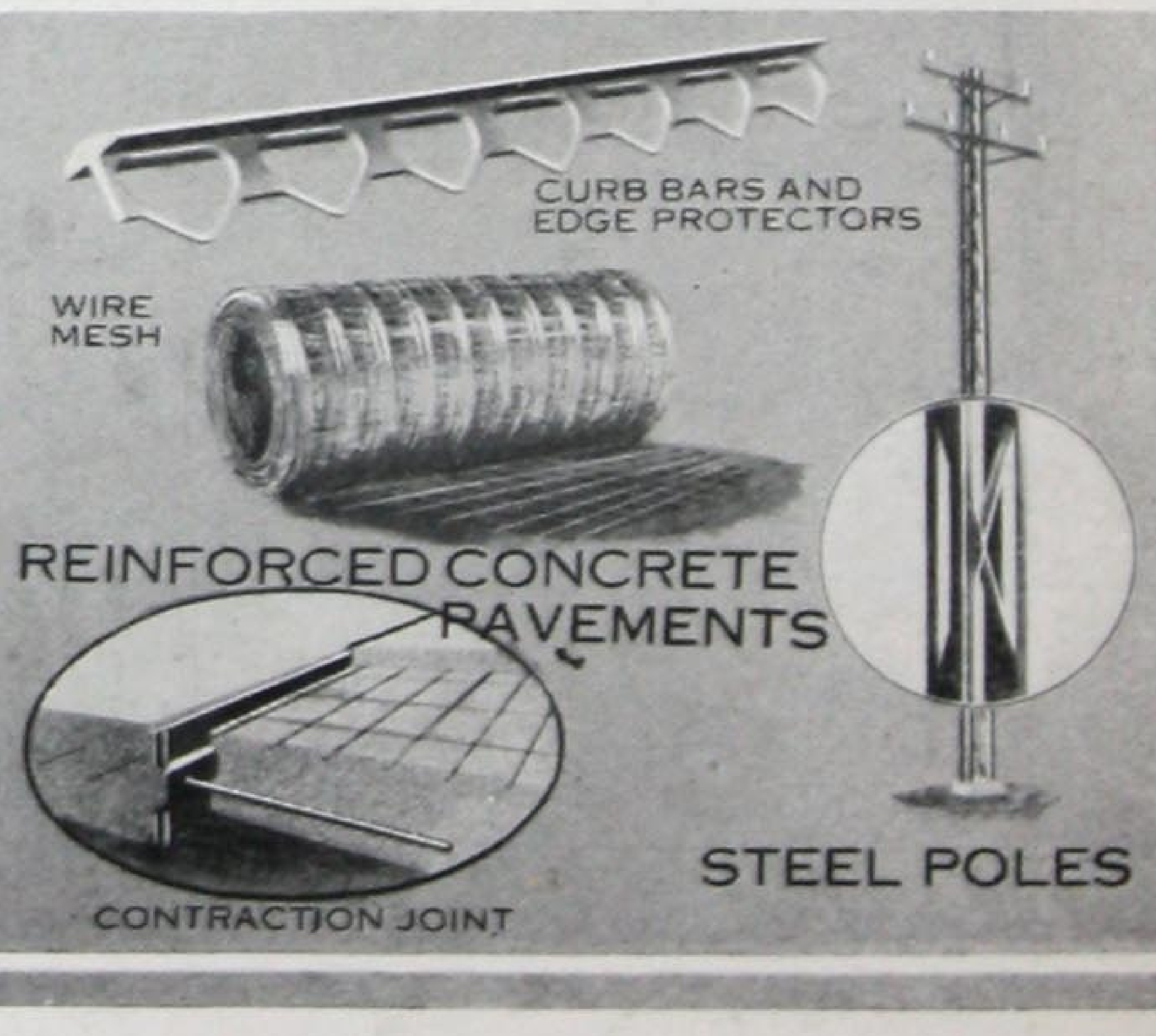
STANDARD STEEL DOORS


BOXES AND PLATFORMS
FOUNDRY FLASKS
PRESSED STEEL PARTS


STEEL JOISTS



REINFORCING STEEL


CURB BARS AND EDGE PROTECTORS
WIRE MESH
CONTRACTION JOINT
REINFORCED CONCRETE PAVEMENTS

STEEL POLES

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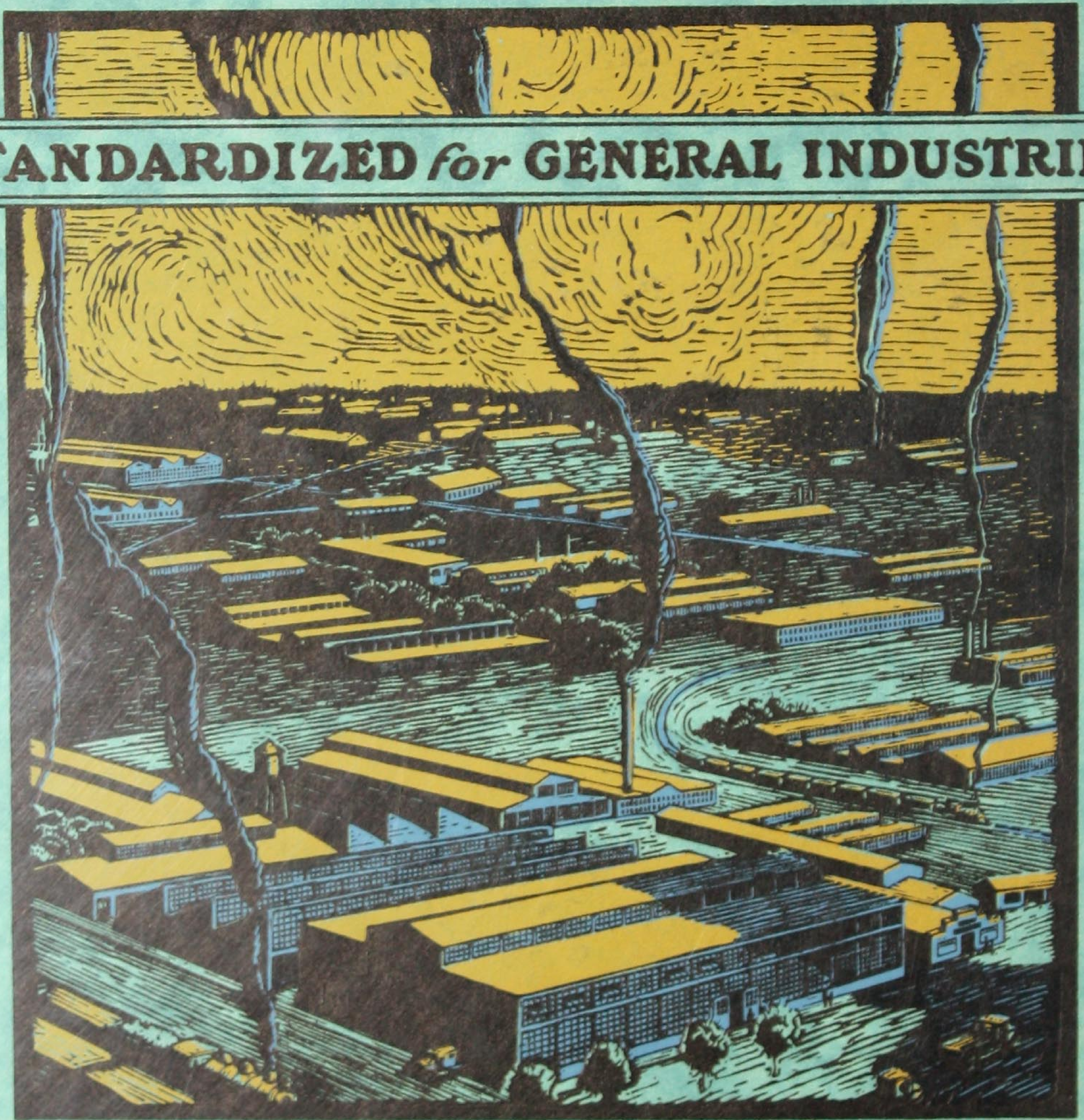
TRUSCON PERMANENT BUILDINGS

TRUSCON STEEL CO.

STANDARDIZED for GENERAL INDUSTRIES



TRUSCON STEEL COMPANY
YOUNGSTOWN, OHIO
WAREHOUSES AND OFFICES IN ALL PRINCIPAL CITIES